NR 9/300,10/1926



ANNUAL REPORT

OF THE

STATE INSPECTOR OF COAL MINES

1926



TARCE M. OTHERS, P. DYSSAU 1 W7



FOURTEENTH ANNUAL REPORT

OF THE

STATE INSPECTOR

COAL MINES

1926





DENVER, COLORADO ${\tt EAMES} {\tt BROTHERS}, {\tt PRINTERS} \\ 1927 \\$

CONR M C 6 1926

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PERSONNEL OF THE COAL MINE INSPECTION DEPARTMENT

James Dalrymple, Chief InspectorDenver,								
W. M. Laurie, Deputy InspectorTrinidad,								
FINLAY McCallum, Deputy Inspector								
George C. Dalrymple, Deputy InspectorWalsenburg,								
James W. Graham, Deputy InspectorLafayette,	Colo.							
Hugo H. Machin, Deputy InspectorDenver,	Colo.							
Ada R. Tibbits, Chief ClerkDenver,	Colo.							
MAX M. GREENWALD, Assistant ClerkDenver,	Colo.							

FIELD FORCE AND DISTRICTS

- W. M. Laurie, 512 Ash St., Trinidad, Colo.................... District No. 1
 All mines in Las Animas County, except those listed in
 District No. 2.
- FINLAY McCallum, Box 334, Aguilar, Colo...................... District No. 2 Includes the following mines in Huerfano County: Bunker Hill, Ideal, Leader No. 2, Leader No. 4, Lester. Cameron, Pryor, Ravenwood, Torrid, and the following mines in Las Animas County: Berwind, Brodhead, Cass, Delagua, Empire, Greenville, Jewel, Crestone, Ludlow, Mutual, Rapson, Southwestern, Tabasco, Wellington, Royal, Fawcett, and Kenneth.
- George C. Dalrymple, Box 645, Walsenburg, Colo.....District No. 3 Includes the following mines in Huerfano County: Reliance, Oakdale, Gordon, Sunnyside, Black Hills, Vesta, Maitland, Pictou, Walsen-Robinson, Fern, Alamo, Calumet No. 1, Calumet No. 2, Toltec, Caddell, Kebler No. 2, Pacific and Barbour, and all mines in Fremont County.
- James W. Graham, Box 373, Lafayette, Colo............ District No. 4 Includes mines in the following counties: Adams, Boulder, El Paso, Jackson, Garfield, Gunnison, Mesa, Montrose, Ouray, Pitkin, and Rio Blanco.
- Hugo H. Machin, 720 13th St., Denver, Colo................... District No. 5 Includes mines in the following counties: Archuleta, Elbert, Jefferson, La Plata, Moffat, Montezuma, Routt and Weld.

LETTER OF TRANSMITTAL

Denver, Colorado, April 1, 1927.

To His Excellency,

WILLIAM H. ADAMS,

Governor of Colorado.

Sir: Herewith I have the honor to submit to you, in accordance with Section 27 of an Act entitled "Coal Mining Laws," the Fourteenth Annual Report of this Department.

The period covered began January 1 and ended December 31, 1926.

Respectfully,

JAMES DALRYMPLE, State Inspector of Coal Mines.

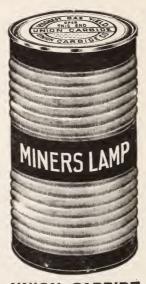
UNION CARBIDE

For Miners Lamps

World's Best Quality---Highest Gas Yield

THE PRODUCT OF THE ORIGINATORS AND DEVELOPERS OF THE CARBIDE AND ACETYLENE INDUSTRY.

Uniform, sustained quality assured by more than quarter of a century of experience in selecting raw materials, and in perfecting laboratory practice and works processes.



UNION CARBIDE PACKED IN
BLUE AND GRAY DRUMS
CAPACITY 100 LBS.

The constant, dependable quality compels recognition of the economies which qo with it. Union Carbide will keep for years the original

package

deterioration.

without

OUR REMARKABLE NATION-WIDE SERVICE AND DIS-TRIBUTING SYSTEM MAKES UNION CARBIDE QUICKLY AVAILABLE EVERYWHERE

Miners Lamp Union Carbide is specially prepared for miners' use.

Because of its high gas yield, lamps require less Carbide per charge.

Uniform in size, and carefully screened: this eliminates waste and produces uniform generation of gas.

Due to the great purity of Union Carbide and its gas, the flame is of maximum illuminating power, and constant in size.

Our excellent approved package—the Blue and Gray Drum is in keeping with our determination to faithfully protect the interests of the operator and the miner in the matter of Carbide quality, from the time the Carbide is packed at the works until it is consumed by the miner. We have Union Carbide Warehouses in 190 cities.

UNION CARBIDE

Maximum Quality and Exceptional Service

have been developed to maintain the many money-saving and efficiency producing advantages realized by Operators and Miners through the use of Carbide lamps.

Carbide Lamp Advantages

Low Cost of lamp.

Remarkably low cost of up-keep.

Long life of lamp.

Light in weight—Does not handicap miner.

Lamp very compact — No burdensome entanglements. Because of the widely diffused light, miner can easily observe conditions relating to the personal safety of himself and fellow miners. A wonderful aid to mine foremen in getting efficient and economical results.

The Carbide Lamp is easily understood and easily cared for by every miner.

Miner can always assume the posture—standing, bending or kneeling—which will enable him to work with greatest

comfort, and light is always directed just where he needs it

Greater volume of light than from any other type of mine lamp.

Minimizes number of accidents resulting from poor lights.

Working places can be more easily and thoroughly inspected, and dangerous roof, wall and floor conditions detected with greater certainty. No eye strain when Carbide lamps are used. Eye strain means loss of general efficiency.

Carbide Lamp can always be used as convenient Hand Lamp, or can be hung up.

Size of flame and volume of light easily regulated.

Carbide Lamps used in and about mines, have accomplished more for the comfort and convenience of miners than any other development, invention or device of the twentieth century. Union Carbide Gas light is more nearly like the natural light of the sun than any other light known to man. The miner can accomplish more and better work, with greater ease, comfort and safety, than would otherwise be possible.

Our Blue and Gray Drum is, throughout the world, recognized as a symbol denoting:

Best Grade Carbide Highest Gas Value Uniform Dependable Quality Purest Gas

UNION CARBIDE SALES COMPANY

Principal Offices:

Peoples Gas Bldg., Carbide and Carbon Bldg., Chicago, Ill. New York, N. Y. Adam Grant Bldg., San Francisco, Calif.

SUPREME MINE CAP LAMP

The new 4-volt dry electrolyte "CEAG" Cap Lamp RM-7 just approved by the U.S. Bureau of Mines-Approval No. 21-is now being offered.

Ever since the U.S. Bureau of Mines approved in June, 1913, the first "CEAG" Electric Safety Lamp-Approval No. 1-the lamp maintained its inherent qualities and high degree of excellence in design, culminating now in the ideal Cap Lamp that pro-

The Volume of Light and the physical properties of the modern Cap Lamp; it employs a high candlepower 4-Volt Mazda bulb with a concentrated filament, so mounted that the rays of light are unobstructed. Brilliancy of light uniformly maintained without "GLARE AND GLOOM" to the miner, over 15 to 18 hours' shift.

PLUS

Highest degree of COMFORT and SAFETY to the miner by virtue of the DRY ELECTROLYTE BATTERY, a feature exclusive to the "CEAG" Lamp. This is accomplished by means of an ingenious arrangement of electrodes, properly spaced in working condition without the use of the ordinary sep-

arator, thus allowing ample space for successfully operating
DRY ELECTROLYTE, -radically precluding leakage of ELECTRO-LYTE, eliminating consequent damage to person and clothing of miner and loss of light by diminished capacity.

The large surplus power of the battery represents a margin in



ADDITIONAL FEATURES:

DEPENDABILITY in SERVICE, owing to long life of bulb and battery, liberal design and high class workmanship.

MAGNETIC LOCK (an exclusive "CEAG" fea-Advanced to the control of the contr

SIMPLICITY OF CONSTRUCTION; fewest number of parts, all easily ex-changeable in your own lamp-house by handy man.

Time necessary for changing bulb: 8 seconds.

Time necessary for replacing complete

battery: 5 seconds, Time necessary for reptacing electrodes: 10 minutes.

Time necessary for changing cable cord: 80 seconds. Average WEIGHT of battery and cas-

ing: 1 lbs. 15 1/2 ozs.

for changing cable

Lowest Maintenance Cost Guaranteed Ask for Trial-Rental Terms

Concordia Electric Co. 916 Forbes St. Pittsburgh, Pa.

STATEMENT SHOWING RECEIPTS AND DISBURSEMENTS FROM JANUARY 1, TO DECEMBER 31, 1926

RECEIPTS

Tax collected on coal mines.....\$40,768.71

The state of the s	10,100.11	
From sales of copies of the Coal Mining Laws	531.65	
Sales of old instruments	12.00	
Balance brought forward from 1925	9,944.44	
Total		\$51,256.80
DISBURSEMENTS		
Salaries of entire Department\$	22,881.00	
Expenses, Chief and Deputy Inspectors	4,880.62	
Fatal accident investigators, per diem and expenses	243.11	
7511		

Expenses, Chief and Deputy Inspectors	4,880.62
Fatal accident investigators, per diem and expenses	243.11
Mileage books (R. R. transportation)	960.00
Automobiles, supplies and repairs	3,372.06
Board of Examiners, per diem and expenses	1,480.60
Printing	558.35
Postage	750.00
Stationery Supplies	526.23
Telephone service	91.45
Telegraph service	32.47
Instruments	127.12
Express	5.02
Miscellaneous	345.69

FIELD EQUIPMENT

One Hupmobile Sedan One Star Coupe Four Star Coupsters Four Psychrometers Seven Anemometers One Geophone
Five Speedometers
One Carbon Monoxide Gas Detector
Six Koehler Safety Lamps
Three Clineometers

COALS of QUALITY

Lignite—

Puritan--Weld County District Monarch--Louisville District

Bituminous—

Thor--Trinidad District Royal--Walsenburg District

Our Puritan Mine is the largest producer of domestic lignite coal in the state of Colorado. Our Monarch Mine is the largest producer in the Louisville District (Colorado).

NATIONAL FUEL COMPANY

PRODUCERS AND SHIPPERS

511-520 Colorado Bldg.

Denver, Colo.

SUMMARY OF THE COAL PRODUCTION OF COLORADO, 1926

*Number of mines operated Number of new and old mines opened—new mines, 4; old mines re-opened, 6; total	264
re-opened, 6; total	17
Tons of semi-bituminous coal produced Tons of bituminous coal produced Tons of semi-anthracite coal produced Tons of anthracite coal produced Total number of tons of coal produced	6,786,859 43.197
Increase, 1926 Tons of run of mine coal produced Tons of lump coal produced Tons of nut coal produced Tons of pea coal produced	2,797,851 3,112,605 1,073,368
Tons of slack coal produced	37.9
Tons of coal mined for shipment	9 960 149
Tons of coke made	$792,517\\348\\600.4\\230\\7,550$
Number of men employed in and about mines (average)	$\begin{array}{c} 11,768 \\ 4,601 \\ 11,444 \\ 202.9 \\ 6.37 \end{array}$
Annual production per miner. Number and type of safety lamps used—flame, 904; electric, 9.223; total Number of carbide lamps used. †Number of pounds of carbide used (approximately). Number of pounds of permissible powder used.	1,406.2 $10,127$ 4.281 $171,378$ $930,844$
Number of pounds of black powder used	52
Number of men injured per thousand employed. Number of tons of coal produced for each life lost. Number of tons of coal produced for each non-fatal accident. Number of men killed per million tons of coal produced. Number of men injured per million tons of coal produced.	$\frac{4.89}{175.48}$
Number of men employed per fatal accident	
Number of days lost account of car shortage: 30 mines reporting Number of tons of coal lost through labor shortage: 20 mines reporting	296 116,100

^{*}NOTE: The yearly reports of 3 of the above 264 mines were filed too late to embody their combined production of 1,190 tons in the tables of this Annual Report. However, they are included in the Mine Directory or Table No. 1.

†NOTE: A number of mines did not report the carbide used as same was furnished by employes.

--TIPPLES--

- COAL PREPARATION EQUIPMENT -



MINE 22 -WESTERN COAL AND MINING COMPANY-In Construction
One of the Eleven Tipples Built By Us in 1926

COMPLETE TIPPLES SHAKER SCREENS FREDERICK SEPARATORS PICKING TABLES LOADING BOOMS CONVEYORS
ELECTRIC HOISTS
VENTILATING FANS
COAL CRUSHERS
MINE CARS

Consultation, Plans and Estimates Without Obligation

The Pittsburg Boiler and Machine Co., Pittsburg, Kansas

WESTERN SALES OFFICE, 321 Railway Exchange, KANSAS CITY, MISSOURI

FOURTEENTH ANNUAL REPORT

OF THE

STATE INSPECTOR OF COAL MINES

1926

INTRODUCTION

The Fourteenth Annual Report of the State Inspector of Coal Mines is herewith submitted for publication. The tabulations compiled from the various reports filed with the Department during the year 1926 show that 212 companies and individual operators reported the output of 264 mines as 10,616,760 tons, an increase of 176,373 tons over that of 1925. The average number of men employed in and about the mines was 11,768, being 460 men less than in the preceding year, and the man-days worked was 202.9 or 16.3 more days in 1926. Out of the 264 mines recorded, 142 have no railroad connections, although some of them freight coal by truck within a radius of fifty miles, the greater number, however, supply local trade only and are idle during the spring and summer.

Fifty-two lives were lost during the year, four at Bear Canon mine explosion and three at the Harvey Gap mine explosion. While this is a great loss of life, it is slightly better than in 1925, in which fifty-seven lives were lost, or 4.66 per thousand employed, as compared with 4.5 in 1926. The non-fatal accidents, which are only approximately obtained, was 1,863 or 49 less than in the preceding year. See tables Nos. 7 and 8. Thirty-three wives were widowed and eighty-eight children made fatherless by these fatal accidents. Many of these children become charges upon public charity, and are deprived of a father's care, have less opportunities for efficient training to make them useful citizens in the future. poor widows are often compelled to leave home and go out to work, a further loss to the welfare of the children. It seems that the hazards in coal mining are still very great and only constant and persistent effort on part of operators and employes can reduce them. Sad to say, the human element is uncertain, lapses occur and they are so human that no iron-clad rules can be enforced. Also, science has invented many mechanical safety devices, and will continue to do so, but always will the great desire to lessen the cost of production offset what aid safety devices give.

Four new mines were opened up during the year, but very little data was furnished this office concerning them. Three of them produced coal. The Sleepy Cat Coal Co., at Hayden, Routt County, with M. T. Streeter as manager, drove a pair of slopes 750 feet long, a good grade of semi-bituminous coal five feet high was reached. A power plant, tipple, fan, and hoist houses have been built, also boarding house and five bunk houses. Cost of development and equipment was \$23,766.00. No railroad connections, but coal was trucked to railroad and shipped to Omaha, Nebr., where it found a market.

The Keystone Coal Co., with Mr. John Connell as President, opened the Keystone mine near Oak Creek, Routt county. A pair of slopes 600 feet long have been driven and a pair of entries turned off the main slope. A good grade of bituminous coal six feet thick was struck. It is in easy reach of the D. & S. L. R. R. A fan has been installed and to date \$9,070.00 has been expended on it.

The Carbon Coal Co., with Dave Urquart as manager, opened the Carbon mine at Florence, Fremont county. A slope 250 feet long and a drift 350 feet long have been driven and 700 feet of entries have been turned off. A four-foot seam of semi-bituminous coal was struck. No railroad connection. A fan has been installed and the cost of development to date was \$6,500.00.

The Pacific Coal Mining Company, with John C. Caddell as manager, is opening up the Pacific mine near Walsenburg, Huerfano county. This promises to be a mine of large producing capacity. Up to the present time no coal has been mined, only development work has been done. A slope 1,400 feet long has been driven at a cost of \$15,480.00 and equipment ordered costing so far \$20,000.00, which is on the ground but not yet installed. No railroad connections, but survey has been made and railroad will be in when mine is on a production basis. Depth of seam not given, probably not yet established.

Some very expensive improvements were made at the mines of several of the large companies, also a number of smaller operators put in many improvements. Briefly enumerated they are approximately as follows: Over a hundred good dwelling houses, and several bath houses were built to give better accommodations to employes. A number of office buildings were erected. Water plants, power plants, and tipples were erected, and several old plants and tipples remodeled. Nineteen of the latest model pumps, 287 pit cars, 182 electric lamps, 12 electric generators, a number of cutting machines, 13 electric hoists, box car loaders, scales and shaker screens were purchased. Twenty-three new fans, telephones, and many mining devices were installed. Two additional rock dusting machines were purchased during the year, all showing that the trend of the Colorado coal mining industry is progressive and building for a greater output in the future. These improvements represent an ontlay of many hundred thousand dollars.

The law requiring all coal mines in Colorado to install a ventilating fan and have certified mine foreman in charge was passed

in 1921, but because of lack of funds was not enforced until 1925, when the Legislature increased the tax from one-third of a cent to four-tenths of a cent per ton. As soon as we started to enforce the law, one injunction after another was issued against me prohibiting me from closing the mines which did not comply with the above requirements, and nothing could be done until the State Supreme Court rendered a decision upholding the law, on November 29, 1926, which in part is as follows:

"We wish to make it plain that we are not passing upon the validity of the statute as applied to a small mine operated by the owner alone. We are holding the statute valid, as applied to the facts in the case, here, where, as we have pointed out, the mine when closed and for nearly three months prior to that date, was worked by the owner and one employee."

"The judgment should be reversed, REVERSED."

Immediately after the first injunction was served on me, I notified the Deputy Inspectors not to inspect or interfere with the mines employing less than eleven men. This policy was followed until after the decision of the Supreme Court was given, when we again endeavored to enforce the law. With all the litigation and other interferences, about 80% of all the small mines have installed fans and have certified men in charge.

The following tables are given so that everybody may have the facts and understand why the Coal Mine Inspection Department took the steps they did concerning the small mines employing certified foreman and installing ventilating fans.

TABLE SHOWING THE NUMBER OF MINES; NUMBER OF MEN EMPLOYED; PRODUCTION; NUMBER OF FATAL ACCIDENTS; NUMBER OF TONS OF COAL PRODUCED PER FATAL ACCIDENT; AND NUMBER OF MEN KILLED PER THOUSAND EMPLOYED FOR THE YEARS 1913-1925, INCLUSIVE, IN MINES EMPLOYING ONE TO FIVE MEN, INCLUSIVE.

YEAR	No. of Mines	Tons of Coal Produced	No. of Fatal Accidents	Tons Coal Produced per Fatal Accident	Killed per 1,000 Employed	No. of Men Employed
1913	23	42,399	2 3	21,199	24.4	82
1914	41	50,001	3	16,667	23.26	129
1915	49	50,304	1	50,304	6.94	144
1916	65	70,815	2	35,407	13.89	144
1917	52	71,969	0			129
1918	63	77,058	0			177
1919	72	87,065	0			194
1920	71	94,586	2	47,293	10.64	188
1921	83	94,422	1	94,422	4.59	218
1922	95	98,923	$\begin{array}{c} 1 \\ 3 \\ 2 \end{array}$	32,974	12.05	249
1923	106	112,484	2	56,242	7.91	253
1924	111	120,344	0 5			256
1925	132	137,780	5	27,556	15.38	325
Average	74	85,242	1.615	52,781	8.5	190

Mines employing one to five men inclusive produced .82% of all coal mined in Colorado from 1913 to 1925 inclusive, employed 1.45% of all the men working in and about coal mines in Colorado from 1913 to 1925 inclusive, and killed 2.18% of all the men killed in and about coal mines in Colorado from 1913 to 1925 inclusive.

The above table shows that mines employing from one to five men inclusive killed 30.6% more men per 1,000 employed and produced less than 40% of the tonnage produced by mines employing more than 10 men per life lost.

Comparative statement showing the number of men killed per 1,000 employed and number of tons of coal produced for each life lost in mines employing 1 to 10 men inclusive and in all mines employing more than ten men, for the years of 1913 to 1925 inclusive. Also, showing the same information for the entire state prior to the present law becoming effective, 1908 to 1912 inclusive.

MINES EM MEN	IPLOYING INCLUSI		MINES EMPLOYING 11 MEN OR MORE			
YEAR	Killed per 1,000 Employed	Tons of Coal Produced per Fatal Accident	YEAR	Killed per 1,000 Employed	Tons of Coal Produced per Fatal Accident	
1913 1914	15.6 11.1 3.5	33,452 44,405 122,719	1913 1914 1915	8.44 6.97 5.13	85,688 112,058 136,392	
1916 1917 1918 1919	11.28 No 5.6 2.6 11.1	45,986 Fatals 87,083 166,285 50,927	1916 1917 1918 1919 1920	3.14 13.73 4.92 7.33 5.00	$\begin{array}{c} 253,274 \\ 65,551 \\ 180,926 \\ 113,781 \\ 184,506 \end{array}$	
1921 1922 1923 1924	5.29 7.78 6.62 2.24 10.31	81,576 58,519 71,675 224,135 45,048	1921 1922 1923 1924 1925	3.63 5.42 4.91 3.51 4.43	$179,576 \\ 139,565 \\ 160,662 \\ 238,999 \\ 196,445$	
Average	6.74	71,821	Average	5.9-	136,395	

STATE OF COLORADO, 1908-1912

YEAR	Killed Per 1,000 Employed	Tons of Coal Produced per Fatal Accident
1908	$\begin{array}{c} 4.4 \\ 6.76 \\ 21.6 \\ 6.35 \\ 7.06 \end{array}$	$170,992 \\ 121,039 \\ 37,946 \\ 122,862 \\ 113,418$
Average	9.25	113,051

REMARKS: The above figures for the years 1913 to 1925, inclusive, show that the mines employing one to ten men, inclusive, kill over 12½% more men per 1,000 men employed than the mines employing 11 men and over, and that they produced less than 53% of the tonnage produced by the mines employing more than 10 men per life lost.

The Legislature is now in session. I have appeared before the mining committees of Senate and House and furnished them with copies of the above tables. Notwithstanding this, two bills have been presented, one of them exempting mines employing not more than six men underground from employing a certified mine foreman, the other exempting mines employing not more than five men underground from employing a certified foreman and installing a ventilating fan. In other words, they will exempt mines having the highest fatality rates from the two major requirements of the law.

The following is a summary of the work done by the field force of this Department, during the year.

Total Inspections made in 1926. Total Mines Inspected.	$\frac{688}{220}$
Number of Fatal Accidents Investigated by Inspectors and Special Investigators	45
Number of Inquests Attended by Inspectors and Special Investigators	36
Scale Inspections	5
Complaints Investigated	32
Prosecutions	9
Miles Traveled by Auto	40,427
Railroad Scrip Used	960.00

In concluding, I wish to thank the great majority of coal companies for their co-operation with this Department in complying with the law and the field force for their loyal and faithful services rendered during the year.

On January 1st, 1927, Mr. Henry P. King resigned his position. He had been Deputy State Coal Mine Inspector since 1910. He was a capable and conscientious official and the loss of his services will be felt. Mr. Finlay McCallum was appointed to succeed him.

Respectfully submitted,

(Signed) JAMES DALRYMPLE, State Inspector of Coal Mines.



THE NEW M-S-A ROCK DUST DISTRIBUTOR

The first commercial Rock Dust Distributor ever marketed in this country was manufactured a little more than two years ago by the Mine Safety Appliances Company. Since that time Experienced Mining Engineers and Coal Operating Executives have collaborated with us to produce the New M-S-A Machine.

The Essential Features Include:

(1) A sufficiently rugged construction to withstand hard usage in coal mines.

(2) A design simple enough to be fool-proof, yet mechanically sound.

(3) A positive means of feeding the dust, with particu-

lar care being given to its proper aeration.

(4) A means of varying the amount of dust discharged. A rock dust distributor should be able to force dust through pipes or hose of reasonable length. A decrease in the rate of dust discharge will permit air under pressure to earry the dust farther. Maximum discharge rate 125 lbs. per minute; minimum 70 lbs

70 lbs. (5) Protection of bearings, motors and meshed gears from the fine rock dust.

(6) A nozzle whose use will make possible a uniform application of rock dust over irregular entries and those whose cross-sectioned shape varies considerably. Since the cost of rock dust represents about 65 per cent of the total cost of rock dusting, it is wise to be economical in its use, by placing the dust where it is most needed. This can be accomplished only by use of a flexible nozzle.

For those interested we have prepared an illustrated booklet giving complete information and detailed de-scription. Write today for your copy. Ask for Bulletin No. 211.



Braddock Ave & Thomas Blvd. Pittsburgh, Pa.

"Everything for Mine and Industrial Safety"

			-	Name of Manager		ORADO FOR THE YEA	MDie		- Geningical Name or	Avetage
	Bay & Harper	Skinmbæk Pax -	Archiplela Archiplela	or General Su- perlatendent	Paguan Springs	SuperIntendent W. W. Hay. T. b. Pay	Address Itay field Pagesa Springs	None None	Number of Coal Bed Worked	Feel 1
Martin	Horky Mountain Fuel Co Hocky Mountain Fuel Co Hocky Mountain Puel Co Horky Mountain Puel Co	Industrial Standard Sturgard Arms	Houlder Houlder Houlder	Oteo P Peatl Gen T Peatl Heo T Peatl	Denner Henrer Denner	rico Swerlingen Partit (Alle): J. C. Williams	Jafoyelle Jafoyelly Janleyllje	0 H & Q 0 H & Q 0 & 8	lower Lafayette hower Lafayette	1' 5" to 9 4 to 6 6 to 11
	Huck) Mountain Puel Co Nathand Enel Co Hander Valley Canl Cu	Gorlison Mounteh No. 7 Centomilal	Houlder Doubler Houbler	Beo T Peart Summed Teacher P. M. Pellita & Eph Newhit	Henry r Henrer Henrer	Thus Illium Theory Birlings It S Itashang	Gorborn Hrmonflehl Loubeville	1 4 8 1 4 8 0 4 8	Laterale Preinceons Laterale Permatten	6 10 1
	Higek Dhamourt Facilités Progentico & Soins, S., Tros Afax (York M. Pir	Hack Dismond taramount Onfiles Pambro	bonbler Hanbler – Hoybler Bonblet	Those filling S. Domenton Charles files	honjarille Louisville Louisrille	Thus Illian S Homentro Class Liley J. M. Salvage	Hoghler Lambrillo Lambrille Lambrille	None 1' & 8 r' H & Q	Louisr())r	6 10 7
	Perdens food th Williams, J. A Penekor Jurk Pool Cu	Proceeds Pracker Junk No. 2 Pracker Juck No. 3	Houlder Boglilet Houlder	J.A. Williams J.A. Williams It. H. Durles	Houbler	J. A. Williams Miller Chard	Hunhler Bunhler	None None	*	\$ 5 T
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National Puel Co Clayinn Foat 155 Boulder Virlley Ford Co. Consolldated Coal & Coke Co Grand Junction M. & F. Co.	Purnan Playfon Boulder Valley Baum Sterlling	Weld Weld Weld Weld Weld	Samuel Teacher Geo II Morrison P M Politier rajeon W Smith A M McNell	flermer Erle Heimer Heimer Deimer	Peorge Mathewa W. M. Hurt James McPadden A. W. Paddeld Inc. R. McNell	Pacono Erle Pale Dagran Dagran	T P T T T T T T T T	Larande Cretaceous Larande Pormation		1 9 9 7 † 6 0 , 1
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VE	NTILATING EQUI	PMENT	r or co	AL MIN	ES IN	STATE OF	COL	ORAD	O FOR TH	HE YEAR ENDING	DECEMBEI	₹ 31, 1	926	
			Kind of			Саления	and of S	mber Type afely					chea	
Name of Operator	Name of Mine	Shaft Depth	Leogth	Degree Pitch	Drift Length	Non-Gaseons A	Flame	Bleetric	Method of Ven- Illadon	Name of Fan	Diameter Feet	Revolutions Per Minuto	Water Gauge Developed Inche	Kind of Power Used
Afux Conl M. Co	Capitol. Alamo	219	2500	170	- 70277	Gascous Gascous Non-Gascous	-0.4	225	Fan Fan Fan	Buffalo Vulcan	10 6 24	70 166	116	Steam Electric
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Block Coal Co Bluff Springs Coal Co. Boaglio Coal Co Boaner Coal Co Boulder Hlack Hawk Coal Co	Hluff Spring's No 2 Pickford Ronner Boulder Black Hawk	20 No	200 Iteperi	Mine	Cloud	Non-Gameous Non-Gameous Non-Gameous	1		fran Can Natural	era grow (1)	4 1/2	1140		Blectric
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igh etric Coal Co Electric Coal Co Electric Coal Co Empire Coal M. Co	Obliand Hack Diamond Follard Emple	70	Report 200 200 6000	5 %		Non-Cascous Non-Gascous Gascous			Pich Pan Pan Pan	Roffalo Activey	1 3 5	200 250 450		Gas dine Lingino Discirle Gas Engine & Bleetrie
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itoyal Gorge Coal Co Hoyer, J. S. Russell, W. E., Conl Co Santa Fe Coal Co	Royer Russell Santa Fe	220	750 10	3000 Non-Gazed Non-Gazed Non-Gazed	009 1	Fan Fan Ean	Stine	3, 1,, 30		Gasoline Engine
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Spencer, Geo S	Spencer	Dala	Not 100 21/2 % 286 9%	Non-Gase	OTH 4		Sturievani	1 7" 60 3 32		Electric
Stalen Hall Coal Co Stalen Hall Coal Co Stokes, W. D. Sunnyalde Coal M. Co	States Slokes Sunnyside		1300 5% 12		eus 2 130	Fan Fan Fan	Ajax-Sirocco	1 5 43	n	
Sunshine Coal Co		3 hA	8200 9% 400 16	Non-Gase	OUR 4	Fan Natural Fan	Silne	6 29		Gasoline Engine
Thomas Coal Co (El Paso C Thomas Coal Co (Nesa Co.) Three Plues Coal Co				2000 Non-Gase	ous 1	Fan Natural	Jeffrey		6	Electric
Tipetsch, Crank	Tupolach		2400	100 Non-Gase Non-Gase Non-Gase	OUR 1	Fan Natural Natural		12	0	Electric
Triatigle Coal Co	Baldy Mt	~ { } }	1800 }	So forthe		0 Phno(2)	Vulcan & Jeffrey	{	0 2.0 }	ggs ggsmandeller
Ute Coal Co	. Valley View		160	dala 160 Non-Gase	0U5	Fan Fan	Yulcan	12	0 5	Ganoline Engine Sleam Illectric
Valley View Coal Co Vesta Mines, 190 Vickers Coal Co	Vickers	47	3900 45%	Non-Guar		. Fan O Fan	Strocco	734 23		
Victor-American Fuel Po Victor-American Fuel Co	Chandler Kenwood	162	4600 7%	1 1150 Gascous	2 12	5 Fan	Strocco		5 18	Electric
Vicior-American Fuel Co			3000 316 %	3 3725 Non- 6 8860 Gascou	16	Fans (2)	Capelle & Crawford	6x12	8 .7}	Sleam
Victor-American Fuel Co			18%	5 7573 1 4200 Non- 2 3300 Gascou	6 12	Fans (2) S Fan	Jeffrey & Ollumwa Silne,	42	0 - 20	"Steam & Electric
Victor-American Fuel Co		{ 1 2	1010 9 % 3150 15 %	Non-Gas	вио	Natural	AGATUTA DEVELOPAR-PROPRIES	6 6	io ::	Electric
Vigit, Jose S	Whittook	** ***********************************	210 700 100	Non-Gas Non-Gas 165 Non-Gas	cous	Natural Fan	Robinson		00	Gnaoline Engine Electric
Williams Coal Co	Williams Cracker Jack No 2	Noi	Given	Non-Gas	eous 1	Natural Fan Natural	Buffalo		00	Gasoline Engine
Witton Conl Co Winkler, Gus	Pritchard Missons Wiston Wisconsin	43	1 1000001 1 0 00 11101000 0 000001 1 0 00 11101000	1600 Non-Gas 100 Non-Gas Non-Gas	enus l	Tan Natural	Buffalo	1 15		
Wisconsin Coal Co	TIBCOMBIN				pproved safely	lamn				

A A gaseous mine is one generating explosive gas in quantics sufficient to be detected by an approved safety lamp.

*Mine shut down December 3, 1925, account being Worked out

*No report, mine closed

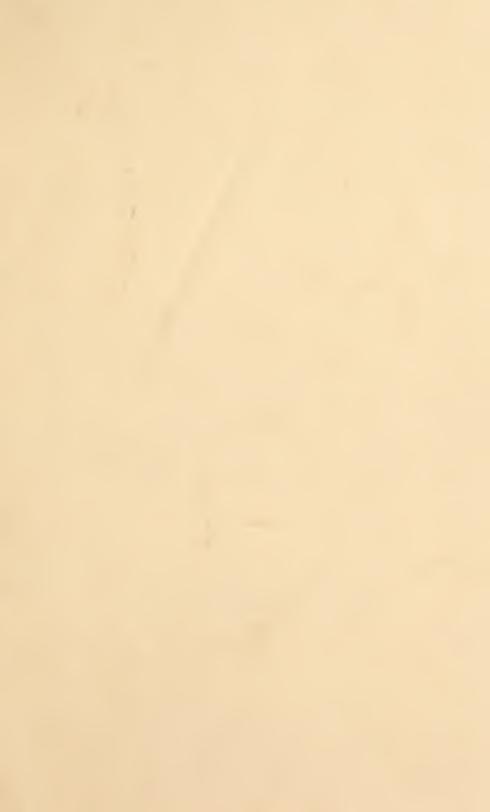




TABLE No. 4

MINING MACHINES AND EXPLOSIVES USED AT COAL MINES IN THE STATE OF COLORADO FOR YEAR ENDED DECEMBER 31, 1926

ed	Permissible Sylsolyzë	33,612 2,050	53,700	6,150	4,900	350
Explosives Used (Pounds)	Dynamite	360	1,030	1,800		100
Exp	Black Powder	200	1,550 1,000 350	2,500 2,625 2,625 250	1,500	1,250
5 -	latoT	7,015 105,073 6,193 702 31,639	244,583 1,850 1,381 1,862 770	68,113 2,917 5,703 18,796 1,378	4,634 671 30,556 49,797	8,868
Coal Mined by (Short Tons)	Мг асһіпе	7,015	170,430	62,968	24,297	7,656
0 -	БивН	40,841 6,193 702 31,639	74,153 1,850 1,381 1,862 7,70	5,145 2,917 2,449 1,378	4,634 671 6,259 18,724 112	1,212
ing	No. Operated by Electricity	9	∞	9 5	104	2
Mining Machines	No. Operated by Compressed Air	62				
	Name of Mine	Capitol	Boncarbo	Toltec Babson Baldwin-Star Barbour Wright	Morning Star—Shamrock. Bear Canon No. 3 Bear Canon No. 6 Bennett	Caddell Black Diamond.
	Name of Operator	Ajax Coal M. Co Alamo Coal Co Altitude Coal Co American S. & R. Co	American S. & R. Co Amos Coal Co Anchor Coal Co Anchor Fuel Co Arthur Coal Co	Aztec Coal M. Co. Babson Coal Co. Baldwin Fuel Co. Barbour Coal Co.	Baudino & Co	Black Canon Coal & Fuel Co Black Diamond Coal Co

MINING MACHINES AND EXPLOSIVES USED AT COAL MINES IN THE STATE OF COLORADO FOR YEAR ENDED DECEMBER 31, 1926 TABLE No. 4—Continued

	ped	Permissible Explosives		1,670	7,800	38,800 33,150 9,800 4,582 40	
1	Explosives Used (Pounds)	93imsny(l	009	1 377	20	100	1,000
17	exp)	Flack Powder	7,500	100 875 28,175 69,200	600 1,200 2,250	2,475	500
	,	IntoT	24,762 1,471 147 147 14,595	1,346 1,346 559 89,682 222,843	356 1,565 1,967 73,280 28,965	211,758 184,916 81,803 36,092 2,884	6,577
1 6	Coal Mined by (Short Tons)	эпідэвМ	24,762	87,682	73,280	50,016 163,882 16,036 35,338 2,884	6,577
1370		Напд	1,471 147 243 14,595	786 1,346 559 2,000	356 1,565 1,967 461	161,742 21,034 65,767 754	
16 M	ing	No. Operated by Electricity	01+	41-	00 01	401	67
DECEMBER 31,	Mining	No. Operated by Compressed Air	+	: :			-
DEC		Name of Mine	Black Diamond	Pickford. Bonner. Boulder Black Hawk. Centennial. Boulder Valley.	Brant Burnitall Butcher Knife Ravenwood Maitland	Somerset. Calumet No. 1. Calumet No. 2. Perin's Peak.	Brewster Canon District
		Name of Operator	Black Diamond Fuel Co. Black Hawk Coal Co. Black Hills Coal Co. Block Coal Co. Bluck Coal Co.	Boaglio Coal Co	Brant Coal Co. Burnitall Fuel Co. Butcher Knife Coal Co. Caliente Coal Co.	Calumet Fuel Co.	Canon Coal Ass'n.

11,800			10,105 2,820 114 3,723	10,545 8,403 53,202 15,468	12,546 36,823 4,7823 74,507 2,850	23,760 20,829 20,363 52,121 105	2,689	
800 150	75	25					2,062	0.0
2,500	1,000	300	111,000 1,906 4,071 6,434 282		17,555		20,000 1,126 50,750 8,750	3,125 1,125 500
6.2,930 6.5,348 3,548 1,743	100	13,249 241 265 265	်တစ်စစ်ဆွစ်	120,137 43,197 393,235 219,848 140,328	136,662 96,278 62,268 438,572 386,300	236,356 231,853 229,279 203,756 926	60,407 204,213 134,280 619 27,492	1,399 729 435
65,348		2 5 5 4 5	291,005 22,820 21,758 11,186	263,898 174,512 40,969	83,781 54.442 44,295 4,741	70,099 50,038 77,437 29,195	37,556 155,015 134,280 27,492	
3,543	100	13,249 241 265	11,000 133,908 22,170 7,060 15,788	120,137 43,197 129,337 45,336 99,359	52,881 96,278 7,826 394,277 381,559	166,257 181,815 151,842 174,561	22,851 49,198 619	1,399
	'	+	∞ ≈1≈1≈1	16	9 9 1	4041	195	
		+ 19	·]					
South Magnet	Carbon Creek	Greenville	Clayton Coal Creek Rockvale Nonac Fremont	Crested Butte Blk Mountain. Robinson No. 1 & 2 Cameron Lester.	Pictou Ideal Kebler No. 2 Frederick Morley	Toller. Tobasco. Berwind. Sopris. Primero.	City Coal Mines. Harris. Baum. Converse. Corley.	Cortez
Canon Quality Coal Co	Carbon Creek Coal Co.	Cedar Hill Coal and Coke Co Champion Coal Co Chergo, Pon	Clayton Coal Co	Colorado Fuel & Iron Co	Colorado Fuel & Iron Co	Colorado Fuel & Iron Co	Colorado Springs Coal Co	Cortez Coal Co Cottonwood Coal Co Cox, T. L.

TABLE No. 4—Continued

MINING MACHINES AND EXPLOSIVES USED AT COAL MINES IN THE STATE OF COLORADO FOR YEAR ENDED DECEMBER 31, 1926

		DECEMBER 81, 1929	10 91	0101					
		Mining Machines	ing		Coal Mined by (Short Tons)	×.	Expl	Explosives Used (Pounds)	ed
Name of Operator	Name of Mine	No. Operated by Compressed Air	No. Operated by Electricity	БпаН	Масћіпе	Total	Бомдет Вјзек	Dynamite	Permissible Explosives
Cracker Jack Coal Co Crested Butte Anthracite M. Co Crested Butte Coal Co Crown Fuel Co Crown Fuel Co	Cracker Jack No. 1 Smith-Anthracite Bulkley No. 2 Crown.		- -+	24,961 57,880 150	280 11,551 27,335	36,512 36,512 57,880 27,335 150	325 5,600 28,750 7,625	240	
Davis, T. P. Deboy, Frank DeGraffenried, J. R. Dennis & Malone Dick Coal Co.	Engle Ohkraut De Graffenried Verdun	+	+00	4,015 312 100 22 8,053	77,700	4,015 312 312 100 22 85,753	250	1,450	10,450
Domenico & Sons, S., Inc	Paramount. Matchless. Dorth Magnet. Double Dick.	ro		2,086	16,191	16,598 2,086 4,764 14,797 555	5,300 625 2,000 1,875	1,400	
Drott, John H. Durango Coal Co. Electric Coal Co. Electric Coal Co.	Liberty Bell Durango Oldand Black Diamond Pollard	+	i ojen-	300 8,846 1,996 1,904 589		300 8,846 1,996 1,904 589	250 625 350		1,400
Empire Coal M. Co	Empire Marr		0 0 0 1 1 1 0 1	74,740		74,740 2,500	2,000		4,000

Fawveett 1,026 Barye 9,55 Grange 122 Nine Mile 315 Bear River 1 50,083 Witherbee 1 2,676 Leader No. 2 1,594 1,594 Ca & G 7,905
0 0 0 0 0
5 22,187 5 5 5,2187 5 5 5,295 5 66
3 86,076 1,647 1,1952 1,1952 1,1954 1
2,364 2,361 5,460 3,15,332 15,332
+ † 1,918 155 45,336

MINING MACHINES AND EXPLOSIVES USED AT COAL MINES IN THE STATE OF COLORADO FOR YEAR ENDED DECEMBER 31, 1926 TABLE No. 4—Continued

		Mach	Mining Machines		Coal Mined by (Short Tons)	A. (Exp)	Explosives Used (Pounds)	eq
Name of Operator	Name of Mine	No. Operated by Compressed Air	No. Operated by Electricity	bnsH	Ж асhine	IstoT	Black Powder	Dynamite	Permissible Explosives
Keck. W. R. Keystone Coal Co. Langley & Wolf Leyden Coal Co.	Keck. Keystone. Knez. Hart. Leyden No. 3.			3,487 8,487 620 1,282 42,255	57,616	3,487 620 1,282 99,871	100 8,750 1,200 500 26,125		300
Liberty Coal & M. Co Liddle & Jones Liley Coal & Land Co Liley Coal & Land Co Linn, A. C. & Sons	Nearing Garfield Liley (Bvans) Frederick.	104+	- -	1,663 3,436 904	84,953	1,663 3,436 84,953 8,023	32,600 3,725		
Lion Canon Coal Co. Marketti, J. R. Mascot, C. O. & C. P. Co. Mattivi, Steve & Sons. Midwest Coal Co.	Lion Canon			1,869 1,869 1,276 2,642	3,379	769 1,869 311 1,276 6,021	700		800
Moffat Coal Co Moffat Coal Co Montecuma Coal Co Morris Coal Co Mt. Evans Fuel Co	Oak Hills No 1 Oak Hills No. 2 Montezuma Morris Eberle	67	4	113,314 111,766 1,628 2,174	4,416	117,730 115,612 1,628 2,174	30,459 30,561 1,150 2,300	30	12,944 13,062 50 20
Mutual Coal Co	Mutual McGinley.		60	57,996	15,461	73,457	750		2,000

Koe Canon 2,603 1,375 2,000 1 ms 3,613 135,408 13,415 1,375 2,603 2 Gregor 3,613 135,408 14,163 3,515 3,929 3 Gregor 13 2 86,359 30,554 116,913 100,000 1 Itan 13 2 86,359 30,759 36,4209 48,250 5,000 1 Itan 13 2 86,359 30,779 3,016 12,000 12,000 1 Itan 1 6,520 8,228 3,016 10,000 5,000 1 Itan 1 1,200 8,228 3,429 1,000 5,000 1 Itan 1 1,200 8,228 3,228 1,000 5,000 1 Itan 1 1,200 8,228 3,239 1,000 5,000 1 Itan 1 1,100 8,219 1,000 1,000 1,000 1 Itan 1 1,100 1,117,729 1,772									
T 30,554 316,913 100,000 T 486 30,729 30,129 100,000 T 56,220 8,250 40,000 750 T 1 6,597 6,597 69,148 755 K 1 1 1,200 8,228 1,390 1,350 Intual 1 1,371 1,250 1,85 1,750 1,85 Intual 2 2,963 1,195 1,740 875 1,750 1,85 Intual 2 1,740 1,740 875 1,740 1,750 1,85 Intual 1 1 25,220 383 25,220 35,000 1,740 1,740 1,740 1,740 1,740	McKee	6	2	2,603 327 9,313	35,408 134,850	2,603 327 35,408 144,163	1,375 75 7,500 30,515		3,929
ke 1 1 6.557 69,148 75 ke 1 1 120 75 120 75 ke 1	Thor. Puritan. Winger. North Star. Moore No. 1.	113	63 70	86,359 3,016 5,220 56,692	303,729	116,913 304,209 3.016 5,220 56,692	100,000 750 8,250 40,000		12,000
Intual 1 364 15.812 1.075 Intual 2 1.971 17.729 1.000 Intual 2 2.963 1.197 1.971 Intual 2 2.963 1.195 1.155 Intual 2 2.963 1.195 1.1750 Intual 3 1.195 1.145 1.750 Intual 1.195 1.195 1.176 1.750 Intual 1.195 1.195 1.740 1.750 Intual 1.195 1.195 1.740 1.750 Intual 1.196 1.195 1.174 1.750 Intual 1.196 1.196 1.174 1.750 Intual 1.196 1.196 1.196 Int	Oakdale Oberding Ohlo Creek. O. K.	-	- -	62,551 120 3,791 8,210	6,597	69,148 120 8,228 3,791 8,210	1,900 1,250		10,000
n 2 2,963 1,195 1,545 750 r 1,740 1,545 750 r 6 98,522 154,532 253,654 875 r 1 25,220 15,800 r 19,987 19,987 19,987 r 1 25,829 25,829 r 1 25,829 25,829 r 1 25,829 25,829 r 1 25,829 25,000 r 1 13,32 2,000 r 1,332 2,000 r 1,332 1,80 r 1,665 66 r 1,665 66	Brookside Owens Palisade Farner-Mutual		1 2	364 1,971 5,168	15,812	15,812 364 17,729 1,971 5,168	1,075 50 5,000 1,750	185	1,200
1 1 25,220 15,800 1 100 383 25,220 15,800 100 10,987 10,987 10,987 100 10,987 10,987 10,987 100 10,500 10,050 10,050 100 10,056 4,332 2,000 100 1,332 2,000 1,000 100 1,665 1,665 1,665	Red Canon	61	9	2,963 350 -1,740 98,522 780	1,195	2,963 1,545 1,740 253,654 780	150 750 875		
e. # 1 25,829 25,829 Teck # 1 25,829 Treck # 1 25,829 Treck # 1,832 Treck # 1,832 Treck # 1,80 Treck # 1,60	Wolf Creek Pittsburg Falrylew Prairie Canon Prospect		+	25,220 19,987 650	388	25.220 383 100 19,987 650	15 800 350		500
66 150 1,665 1,665 1,665	Reliance	+	7 5 1	25,829 9,656 4,332 180	6,400	25,829 16,056 4,332 180	2,000		2,000
	Pleasant Valley Little Bear Rifle		111	86 383 1,665		383 1,665	150		800

TABLE No. 4—Continued

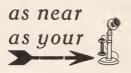
MINING MACHINES AND EXPLOSIVES USED AT COAL MINES IN THE STATE OF COLORADO FOR YEAR ENDED DECEMBER 31, 1926

Used)	Permissible Explosives	3,000	289	451 149 38,413 44,220	369	
Explosives Used (Pounds)	Dynamite	500		23,546	126 300 200	25
Exp	Black Powder	250 325 29,466 15,407	18,856 9,788 12,887 851 8,035	64,775 31,364 13,775	750 250 19,825	1,800 $1,500$ $14,625$
80	ГвзоТ	6,393 3,196 2,308 103,564 59,014	2 44,855 2 4,855 2 3,886 2 3,886	19,517 12,388 381,293 101,798 48,684	141,779 3,082 194 71,427 4,555	933 1,973 91,499
Coal Mined by (Short Tons)	М ас h ine	2,308 70,749 58,072	36.105 32.702 2,364 8,570	12 198,608 98,437	69,427	91,499
	Напд	6,393 3,196 32,815 942	44,347 2,156 2,522 15,312	19,505 12,388 182,685 3,361 48,684	141,779 3,082 194 2,000 4,555	1,973
Mining	No. Operated by Electricity		1 1	61 20 10		5
Min	No. Operated by Compressed Air	6.	∞ o o o o i :			
	Name of Mine	North Canyon Riverside Rocchio- Industrial Standard	Simpson. Acme. Vulcan. Gorham.	Forbes. Southwestern. Columbine Grant. Horace.	Royal Royal Gorge Royal Hoyer Russell Santa Fe	Service Seven Points Shamrock
	Name of Operator	Rifle Coal Mines, Inc	Rocky Mountain Fuel Co	Rocky Mountain Fuel Co- Rocky Mountain Fuel Co- Rocky Mountain Fuel Co- Rocky Mountain Fuel Co- Ross Coal Co-	Royal Fuel Co Royal Gorge Coal Co Royer, J. S. Russell Coal Co. W. E. Santa Fe Coal Co.	Service Coal Co

Shew Coal Co. Sleepy Cat Coal Co. South Canon M. L. Co. Spencer, Geo. S.	Fairview Sleepy Cat. South Canon. Spencer.			1,142	2,957	1,142 2,957 7,418 453	2,275	80	4,800
Stanley, C. O States-Hall Coal Co Stokes, W. D Sunnyside Coal M. Co Sunshine Coal Co Temple Fuel Co	States States Stokes Sunnyside Sunshine Brodhead		5	2,618 4,004 15,227 8,879 37,603	31,837	2,618 4,004 47,064 8,879 150,413	1,875 1,000	20	6,852 24,000
Thomas Coal Co- Thomas Coal Co- Three Pines Coal Co- Tipotsch, Frank- Torrid Coal Co-	Franceville Thomas. Three Pines Tipotsch Torrid			675 500 8,606 1,094 8,889		675 500 8,606 1,094 8,889	375 600 75		2,100
Triangle Coal Co. Trinidad Coal Co. Union Coal & Coke Co. Ute Coal Co. Valley View Coal Co.	Triangle Baldy Mt Pryor Ute Valley View		1 4 1 1	1,292 2,000 13,297 710 970	24,695	1,292 2,000 37,992 710 970	200	200	5,000
Vesta Mines, Inc	Vesta Vickers Chandler Kenwood		22422	5.765 5,909 247,723	17,898 32,526 159,372 14,501 136,927	17,898 38,291 165,281 14,501 384,650	7,125	7,700	12,000 6,000 35,350 20,036
Victor-American Fuel Co Victor-American Fuel Co Vigil, Jose S Wellington Mining Co	Pinnacle		470	108,441 19,914 142 8,555 176	44,191	152,632 60,435 60,455 8,555 176	74,200 22,250 25 25	20	1,506 2,242 50 800
Williams Coal Co	Williams Cracker Jack No. 2 Pritchard Missouri Winton	-		1,437 824 120 904	707	1,437 707 824 120 904	7		20
Wisconsin Coal Co	Wisconsin	:	:	495		495	200		-
Totals		119	324	5,176,626	5,440,134	10,616,760	1,284,075	53,323	930,844

tNo report.

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TABLE No. 6

PRODUCTION AND DISTRIBUTION OF COAL FROM ALL THE MINES IN THE STATE OF COLORADO FOR THE YEAR ENDING DECEMBER 31, 1926

Total Production Distributed	Loaded at Mines for Shipment	Sold to Local Trade and Used by Employes	Used at Mines for Steam and Heat	Coal Made into Coke	Coke Made
10,616,760	9,476,219	664,016	238,813	*1,324,465	792,517

^{*}NOTE—237,712 tons of coal were made into coke at the mine and therefore not included in coal loaded at mines for shipment.

Table No. 5 omitted.



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COLORADO

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TABLE No. 7

NUMBER INJURED IN COAL MINES DURING TH	E CALENDA	R YEAR ENI	THE CALENDAR YEAR ENDING DECEMBER 31, 1926	BER 31, 1926	
	D	Democratic	Temporary	Temporary Disability	
CAUSES	Fermanent Total Disability	Fermanent Partial Disability	Time Lost More Than 14 Days	Time Lost Less Than 14 Days	Total Injuries
Underground—			993	166	391
2. Falls of face or pillar coal	-	4	127	122	202
Mine Cars and locomotives		ಬ	267	151	423
4. Gas explosions and burning gas 5. Coal-dust explosions (including gas and dust combined)			e T	-	6.7
		21	೯೦ ಕ	-	9
7. Suffocation from mine gas	:	:	- 0		7 7
	:	:	26	9.7	. v.
10. Wining raschines		: P1	3 rG	4.0	100
		· :			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
5	:	ng.	234	281	520
In Shart— 12 Felling down shifts or slones			-		-
			· :		
15. Cages or skips				p.m. ,	22
16. Other causes	:			_	21
		1	1 0	1	1 101
On Surface—		ет	202	047	1.451
		:	14	12	26
18. Electricity		-	27 00	101	
			n en) :: ::	1 4
, ,		-	9	×	15
22. Other causes		:	40	30	1.0
Total number injured on the surface		60	7.8	61	142
			-		1
GRAND TOTAL	1	18	1,037	807	1,863

PERMANENT TOTAL DISABILITY. Loss of both legs or arms, one leg and one arm, total loss of eyesight, paralysis or other condition permanently incapacitating workman from doing any work of a gainful occupation.

PERMANENT PARTIAL DISABILITY. Loss of one foot, leg, hand, eye, one or more fingers, one or more toes, and dislocation where ligaments are severed, or any other injury known in surgery to be permanent partial disability.

In this column include only accidents which cause a loss of time more than the balance of the day or shift upon which the acciä

dent occurred.

COAL MINE FATALITIES IN THE STATE OF COLORADO, CLASSIFIED BY CAUSE AND OCCUPATION, FOR YEAR ENDED

		restall Fatalities	17	9	10	2					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-	1	-	Н	_	48
		Surface Fatalties		:	. 11 11			-						6 6 0 0 0 0				
		Total Underground	17	6	10	[~								, 1	1	1		48
		s19d1O [[A	61		П	ro						:	-	П	-	-	-	14
		Flectricians and Helpers		:	:	1						:			:		-	
		Pump and Pipemen										:			1		-	-
	L	Timbermen													:		;	1
	SHAFT	Trackmen and Bratticemen	1									:			:		-	67
		Sud Helpers	i		-							-			:		-	1
	UNDERGROUND AND	Motormen and Assistants			-						-	į			:		:	-
. 9	NIIC	Brivers & Runners	-		7.0	1					-				-		!	9
31, 1926	RGR	Shot Firers				1						!			-		:	
	NDE	Machine Run- ners and Sappers	0.1			i					1	;					1	2
DECEMBER	Ε	Machine Miners	47	ಾ		į				1								2
DEC		Pick Miners	1-	4	-	-								5 5 6 6	:			12
		səssod ərid	1	-							:						;	-
		Assistant Foreman		-	į				-		-					1	-	
		Гогетап		:	1	П			:		1		: :			-	-	-
		CAUSES	Underground— 1. Falls of roof (coal, rock, etc.)	2. Falls of face or pillar coal	Mine cars and lo	4. Gas explosions and burning gas 5. Coal-dust explosions (including	ine		8. Electricity (shock or burns)			11. Mine fires (burned, suffocated,	12. Other causes	Shaft— 13. Falling down shafts or slopes 14. Objects falling down shafts or	Slopes		16. Other causes	Total underground

			-					-		-	1	-	1	1			-	-
	_			_				-		_	_	_		_	_	_		
Surface-								_			_						- 1	,
17. Mine care and mine locomotives	:	1	:	:	:	:	:	:	-	-			:	:	-		_	-
18. Electricity (shock or burns)	;	-	-			-	-	:	-	:	:	:	:	:	:			
19. Machinery		:	1	;		ļ		1	!	-	1	!	:		:		1	-
20. Boller explosions or pursuing			_	_								_		_				
steam pipes	:	:	:	:	:	-	:	:	:	-	:	:	:	1				7
21. Railway cars and locomotives	:	!	:	:	:	:	:	:	:	:	-	1	:	:		-	٦ ٥	٦ ٥
22. Other causes	:	:	-	:	:	-	:	-	:	:	:	-	:	:	7	-	21	7
	Ì	i	-					2			1	-	-	-		1	-	
Total	1]		:		-	-]			:	-	:		4		4	4
Grand total	-		1	12	7	67		9	-	-	2.1	<u></u>			18		4	52
*Number employed in each occupation 196 68 152 4,121 3,429 515 146 828 214 49 344 364 108 188 18, 11,125 2,3364 13,461	1961	89	152	4,121	3,429	515	146	828	214	4.9	344	64	08 1	08 4	33 11,1	25 2,3	36+11	3,461

*To be supplied from Table 10. †Above poll taken December, 1926.

IF YOU WANT

Quality Coal

TAKE NO CHANCES -- BUY

MOFFAT COAL

THE MOFFAT COAL CO.

504 Gas & Electric Bldg. Phone Champa 44
DENVER, COLORADO

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It will pay you to investigate this efficient means of shotbole drilling.

Reports from all coal fields conclusively prove that through the installation of Little Giant Electric Coal Drills the following benefits are secured:

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- 2. Better preparation of domestic sizes of eoal.
- 3. Reduction of powder costs-overhead expense-screenings.
- Improvement of roof condition with resultant saving of labor and timber.

Little Giant Electric Coal Drills are made in various sizes and types to fit any coal mining conditions. Let us send you our complete bulletin on coal drilling by electric power.

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New York



The type 600 Little Giant Mounted Electric Coal Drill is without equal for shot-holes can be drilled at any angle desired by turning the motor assembly on the turntable. Horizontal shot holes can be drilled parallel to and within two inches of the roof. Where necessary, bottom holes can be drilled within the same limits by inverting the column.

TABLE No. 10

COAL MINE EMPLOYEES CLASSIFIED BY OCCUPATION IN THE STATE OF COLORADO DURING YEAR ENDED DECEMBER 31, 1926.

UNDERGROUND .	Employed in and around the mines of Colorado
1. Foremen	196
2. Assistant foremen	68
3. Fire bosses	152
4. Pick miners	4,121
5. Machine miners	3,429
6. Machine runners and scrapers	515
7. Shot firers	146
8. Drivers and runners	828
9. Motormen and assistants	214
0. Doorboys and helpers	49
1. Trackmen and bratticemen	344
2. Timbermen and rockmen	364
3. Pumpmen and pipemen	108
4. Electricians and helpers	108
5. All others	483
Total underground	11,125
SURFACE	
1. Superintendents	127
2. Foremen	58
3. Blacksmith and carpenters	232
4. Engineers and firemen	266
5. Machinists and helpers	91
6. Trackmen and helpers	33
7. All others at mine	1,178
8. Coke-oven employees	230
9. Office employees	121
Total surface	2,336
Total employees	13,461
Number of days men worked during year	202.

Table No. 9, omitted is covered by Table No. 8. Applies to Metal Mining. Above poll taken in December, 1926.

TABLE A—1926

WWING BY COMPANIES: TOTAL NUMBER OF TONS PRODUCED AND NUMBER OF MEN EMPLOYED; NUMBER OF FATAL ACCIDENTS; NUMBER OF TONS PRODUCED PER FATAL ACCIDENT; NUMBER OF NON-FATAL ACCIDENTS; NUMBER OF MEN EMPLOYED PER NON-FATAL ACCIDENT AND NUMBER OF TONS PRODUCED PER NON-FATAL ACCIDENT; NUMBER KILLED PER 1,000 EMPLOYED AND NUMBER OF MEN INJURED PER 1,000 EMPLOYED. SHOWING BY COMPANIES:

Injured per 1,000 Employed	41.7 165.6 333.3 219.6	48.5	145.5	139.8	81.8
Killed per 1,000 Employed	0.8		18.2 1	64.5	1
Number of Tons Produced per Non-Fatal Accident	7,015 3,892 1,149 4,933	13,623	2,350	6,181	736
No. of Men Em- ployed per Non- Fatal Accident	24.0 6.0 3.0 4.6	20.6	6.9	7.2	7.0
Number of Non- Fatal Accidents	27 27 6 56	0	8 1	113	5
snoT to tank Younded per Tatal Accident	276,222		18,796	13,392	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Number of Men Employed per Fatal Accident	255.0		55.0	15.5	
Number of Estal Accidents	1 1			9	
Kmployed Kumber of Men	255 255 255	103	10 0 00 01 T	93 22 20 20 20	111
Total Production	7,015 105,073 6,895 276,222 1,850	1,381 1,862 770 68,113 2,917	5,703 18,796 1,378 4,634 671	80,353 8,868 4,155 24,762	1,471
COMPANIES	Ajax Coal M. Co Alamo Coal Co Altitude Coal Co American Smelting & Ref. Co.	Anchor Coal Co. Archor Fuel Co. Arthur Coal Co. Aztec Coal M. Co.	Baldwin Fuel Co. Barbour Coal Co. Barker, Wright Baudino & Co. Bay & Harper.	Bear Canon Coal Co Bennett Coal Co Black Canon Coal & Fuel Co Black Canon Coal Co Black Diamond Coal Co	Black Hawk Coal CoBlack Hills Coal Co

Block Coal Co Bluff Springs Coal Co Boaglio Coal Co Bonner Coal Co Bonner Coal Co	14,595 1,346 1,346 559	& ¢1 & & ⊢ & 4				7	3.3	2,085		304.3
Boulder Valley Coal Co. *Bracken & Cozza Brant Coal Co. Burntall Fuel Co. Butcher Knife Coal Co.	312,525 356 1,565 1,967	24 24 12 6	1 8 1	247.0	312,525	19	13.0	16,449	1,500.0	76.9
Caliente Coal Co. Calumet Fuel Co. Cambro Coal Co. Cannor Coal Co. Canon Coal Ass'n. Canon District Coal Co.	102,245 514,569 2,884 6,577 4,252	197 415 19 10	L 4	197.0	102,245	322	16.4	8,520 16,080 731 1,417	5.1	60.9 77.1 473.7
Canon Quality Coal Co Canon Reliance Coal Co Canon United Coal Co Carbon Coal Co. (Fremont Co.) Carbon Coal Co. (La Plata Co.)	2,930 65,348 3,543 1,778 100	11 69 6 7				1.9	11.0	2,930		90.9
Carbon Creek Coal Co Cedar Hill Coal & Coke Co Champion Coal Co Chergo, Tom Christensen Coal Co	13,249 241 2,545	11 8 8 1				4	4.0	3,312		250.0
Clayton Coal Co Colorado Fuel & Iron Co. Colorado Springs Co. Colorado & Utah Coal Co. Consolidated Coal & Coke Co.	302,005 3,173,685 60,407 204,213 134,280	211 3,438 69 210 85	10	189	634,735	35 615 7 8	6.0 9.9 10.8	8,629 5,160 8,630 5,673 16,785	1.45	165.9 178.9 101.4 171.4 94.1
Converse, Frank Corley, W. D. Corley, W. D. Cortez Coal Co. Cottonwood Coal Co. Cox, T. L.	27,492 1,399 729 435	12411				6	2.4	3,055		409.1
Cracker Jack Coal Co	36,512 57,880	547		50.0	57,880	21	23.5	18,256 57,880	20.0	42.6 20.0

Gearhart, B. Gelwick Coal Co. Gilson Asphaltum Co. Golden Dawn Coal Co. Godden Coal Co.	1,258 11,172 2,343 57,805	10 3 6 8 2 3 4 8 8 2 8 2 8 2 8 2 8 2 8 2 8 2 8 2 8 2	1	82.0	57,805	111111111111111111111111111111111111111	10.0	11,172 2,343 8,258	12.2	100.0 200.0 85.4
Grand Junction Mining & F. Co. Grassi & Cozzettl. Gray, L. J. Green Valley Coal Co. Griffiths Coal Co.	180,639 295 266 5,923 10,079	151 2 1 1 1				13	11.6	13,895		86.1
Guiliano Coal Co. Halbert Coal Co. Happy Canon Coal Co. Happy Canon Coal Corp. Hayden Bros. Coal Corp.	5,083 338 485 124,993 1,647	16 3 163				2 1	8.0	2,542		125.0
Home Fuel & Supply Co. Huerfano Coal Co. Hughes, Wm. Hunziker & Hodge	1,952 77,004 853 3,344 2,361	106 24 4				12	∞ 	6,417		113.2
Jeffryes Fuel Co Jenkins & Lewis Jewel Colleries Corp Jones & Trachta Juanita Coal & Coke Co	53,459 53,430 45,135 45,135	15 86 1		51.0	45,336	L L	12.3	7,633	19.6	81.4
Keck, W. R. Keystone Coal Co. Knez Coal Co. Langley & Wolf. Leyden Coal Co.	3,487 620 1,282 99,871	16 16 100				1 1 1 1	16.0	3,487		62.5
Liberty Coal & M. Co. Liddle & Jones. Liley Coal & Land Co. Linn, A. C. & Sons. Linn, A. C. & Sons.	1,663 3,436 92,976 769	000000000000000000000000000000000000000				21	4.6	4,427		216.5
Marchetti, J. R. Mascot C. O. & C. P. Co. Mattivi. Steve & Sons.	1,869 311 2,276	13.2.2					: : :			

TABLE A—Continued

Peerless Coal Co.	1.545	673				6	-	77.9		2000
*Pelley, Carl E.	1 740	c	1			1				
Pikes Peak Fuel Co.	253,054	187	-	187.0	253,054	24	7.8	10.544	5.3	128.3
Fine River Coal Co.	180	63								
Pinnacle-Kemmerer Fuel Co	25,220	46	П	46.0	25,220	6	5.1	2,802	21.7	195.7
Fittsburg Coal Co.	100	- co					*			
Prairie Canon Coal Co.	19,987	36				5	7.2	3,997		138.9
Floshect Coal Co.	009	9				:	:			
*Purity Coal Co.	25,829	5.5			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ro	7.4	5,166		135.1
Rapini & Hughes	086	200	-	2.0		4	1.3		200.0	800.0
Rapson Coal M. Co.	16,056	0 00 01				: 63	9.3	5.352		107.1
Kauman Coal Co	4,332	9								
Reinau, R. C.	180	_				:	:			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Richards O H	999						:			
Riflo Coal Co.	1 5000	٦0		-		:				
Rifle Mines, Inc.	6,393	1 4								
Riverside Coal Co.	3.196	-				6	6 6	1 0.65	2 0 2 0 0 0 0 0 0 0 0 0	190 6
Rocchio Coal Co.	2,308	10			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2		1,000		428.0
Rocky Mountain Fuel Co.	821,679	759	5	151.8	164,336	148	5.1	5,552	9.9	195.0
Royal Fuel Co.	141,779	186	-	186.0	141.779	15	12.7	8,114	4	78.9
Royal Gorge Coal Co.	3.082	4							5	
Royer, J. S.	194								0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Russell, W. E. Coal Co.	71,427	59	:		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4	14.8	17,857		67.8
Service Coal Co.	4,000	2 65						:		
Seven Points Coal Co	1 079	, -			1					
Shamrock Coal Co.	91,499	59				. 67	29.5	45.750		33.9
Shew Coal Co.	1,142	G1								
South Canon Mine Leasing Co.	7.418	0 0 0	-	0 6	7 418				1111	
Spencer Coop a		, ,	4		0 4 F C				7 : 7 7 7	- Indicated and a second
Stanley, C. O.	453	- <u>-</u>				:	:	:		
States-Hall Coal Co.	2,618	4				-	4.0	2,618		250.0
Sunnyside Coal M. Co.	4,004	9 6	:			4	93.0	11 766		50
		1				H	0.00	11,100		40.0

TABLE A—Continued

Injured per 1,000 Employed	89.0	2,000.0	74.1 63.5 282.8			158.1
Killed per 1,000 Employed	52.		6.1			4.2
Number of Tons Produced per Non-Fatal Accident	8,879	646	8,949 9,573 2,777			5,699
No. of Men Em- ployed per Non- Fatal Accident	11.0	.5	15.8			6.3
Number of Non- Fatal Accidents	17	2 1	280			1,863
Number of Tons Produced per Fatal Accident	150,413		129,587			204,168
Number of Men Employed per Fatal Accident	191.0		165.0			226.3
Number of Fatal Accidents	-		9			22
Employed Number of Men	191 88 17	2 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2 27 63 990	15 1 1 10	2122	11,786
Total Production	8,879 150,413 675 500 8,606	1,094 8,889 1,292 2,000 37,992	710 970 17,898 38,291 777,519	8,555 8,555 1,437 707	824 120 904 495	10,616,760
COMPANIES	Sunshine Coal Co Temple Fuel Co Thomas Coal Co. (Kei Paso Co.) Thomas Coal Co. (Mesa Co.)	Tipotsch, Frank Torrid Coal Co Triangle Coal Co Trinida Coal Co Union Coal & Coke Co	Ute Coal Co	Vigil, Jose S. Wellington Mining Co. Whitlock. B. E. Williams, Coal Co.	Wilton Coal Co Winkler, Gus Winton Coal Co Wisconsin Coal Co	Total of the State of Colorado

*Above Table shows 18 more men employed than Table B, where the production of mines is given. The Pacific Coal M. Co. and the Rapid Creek M. T. & P. Co. are doing development work only. Bracken & Cozza and Carl E. Pelley mined coal, but the tonnage was not obtainable.



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Best for Miners' Lamps, House Lighting and Cooking, Heating Water, Ironing and for Barns, Poultry Houses, etc.

Because it is of Uniform Size—
Free from Dust—works
perfectly in all makes of Carbide
Lamps and Generators—gives
most gas per pound, and is
made of the very finest
materials in the most
modern plants.

Ask for NATIONAL Carbide

—In the RED Drum

—SAVES You Money

Warehouses from coast to coast

Cetyle Sales and Dode to 125

Astona, M. Lenderpiesse Carr

DUNCAN

Foundry and Machine Works ALTON, ILLINOIS

Manufacturers of

Mine cars, roller bearing, self oiling and plain wheels, axles, self dumping cages, etc.

Blasting and Tamping Tubing

For Shot Firing and Rock Dust Stemming

NO LOOSE SEAMS

DOES NOT BULGE

MAKES A SOLID RIGID CARTRIDGE



Ideal for Tamping—Makes Lump Coal Easier to Get—No Powder Spilled Along Drill Hole—Made in Diameters to Suit All Drills—Tubing Marked in Inches—For Use in Wet Holes—No Cartridge Stick Needed—Promotes Safety in Mines.

Wheeling Clark Patent Tubing Co.

3625 McCulloch St.

Wheeling, W. Va.

HAYDEN COAL

"The Coal That Cauliflowers"

From the Famous Oak Creek District Routt County

Hayden Coal comes from a shaft 350 feet deep and is the only shaft mined coal in Routt County. It is free from crop or surface coal, and shows the highest analysis of any coal from Routt County.

It Burns Hotter---Lasts Longer

Hayden Bros. Coal Corporation

Tramway Building, Denver

C. W. Brown, General Manager



CARBIDE MINE LAMPS

Safe--Durable--Strong

For operators as well as miners Justrite lamps have been made of the best material and workmanship in order that the highest efficiency and best service could be maintained. Justrite lamps throw a strong, penetrating light which keeps the miner's

trating light which keeps the miner's efficiency to a high standard and increases his production—naturally the mine output. These are important facts for the operator.



With wire feed and 2½" reflector. A sturdy lamp that will always give good results.



Polygon feed lamp with 4" nickel reflector. Gives penetrating light excellent for inspectors and shift bosses.



The upright "Victor" lamp for miners who prefer the vertical construction. A strong durable lamp.

Ask for CATALOG showing all models

JUSTRITE MANUFACTURING CO. 2064-2081 Southport Ave. CHICAGO, U. S. A.

TABLE B

SHOWING BY COUNTIES, MINES OPERATED, NAME OF OPERATOR AND ADDRESS OF MINE, CHARACTER OF COAL, NUMBER OF DAYS WORKED, AVERAGE NUMBER OF MEN EMPLOYED, TOTAL NUMBER OF TONS OF COAL PRODUCED IN 1926, AND CAPACITY OF MINE PER DAY IN TONS.

ARCHULETA COUNTY

Name of Company Bay & Harper	pany	Mine Post Office Bayfield	Character of Coal Sub-bituminous	Xumber of Days	Average No. of Men Empleyed	muN lstoT snoT to rad beaubortd	Capacity of Mine Per
Cox Total Number	T. L. Cox of Mines Operated	Pagosa Springs	Sub-bituminous	125	- 60	1,106	

BOULDER COUNTY

	ŕ			: : : 1	- 1
	103,564 59,014 44,347 36,132 34,858	4,886 144,163 89,682 27,335 24,762	16,598 7,015 2,884 1,545	359 383 383	600.849
	110 41 31 54	153 107 107 32 20	0 4 4 L W	110	684
	178.9 220.5 136 116 173	78 222.8 146.6 175 327	151 61 276 71 216	34 113 63 120	172.4
	Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous	Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous	Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous	Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous	
TOO OF THE COLOR	Superior	Gorham Broomfield Louisville Gorham Boulder	Louisville Louisville Louisville Gorham Boulder	Boulder Gorham Boulder Gorham	
	Rocky Mountain Fuel Co Rocky Mountain Fuel Co Rocky Mountain Fuel Co Rocky Mountain Fuel Co	Rocky Mountain Fuel Co	S. Domenico & Sons, Inc. Ajax Coal M. Co. Cambro Coal Co. Domestic Coal Co. Peerless Coal Co.	J. A. Williams Cracker Jack Coal Co Boulder Black Hawk C. Co Pittsburgh Coal Co	Total Number of Mines Operated: 19
	Industrial Standard Simpson Acme	Gorham Monarch No. 2 Centennial Crown Black Diamond	Paramount. Capitol. Cambro. Matchless.	Cracker Jack No. 2 Cracker Jack No 1 Boulder Black Hawk Pittsburgh	Total Number

 $\frac{100}{20}$

DELTA COUNTY

					1		
King	Juanita Coal & Coke Co	Bowie	Bituminous	83 213.5 266.8	10 10 00 44	45,336 5,923 5,168 2,963 2,618	1,000 60 50 30
Independent Gelwick Berry Winton Burdick (Kurtzville)	Independent Coal Co	Cedaredge———————————————————————————————————	Semi-bituminous Semi-bituminous Semi-bituminous Semi-bituminous Semi-bituminous	222 202.8 120 118 190	46010101	2,361 1,258 955 904 720	40 20 15
Converse. Rollins. Owens. Bennett. DeGraffenried	Frank Converse	Paonia Delta Hotchkiss Hotchkiss	Semi-bituminous Semi-bituminous Semi-bituminous Semi-bituminous Semi-bituminous	150 64 120 90 60		619 327 364 112 100	30
Fairview Total Number	Joe M. Porterof Mines Operated: 16	Delta	Semi-bituminous	136.4	10	100	
				-			

DOLORES COUNTY

North Star	New Mexico Lumber Co	McPhee	Semi-bituminous 220	220	11	5,220	
Total Number	Total Number of Mines Operated: 1			220	11	5,220	! :
	(B)	ELBERT COUNTY					
Burnitall	Burnitall Fuel Co	Matheson Colorado Springs	Sub-bituminous Sub-bituminous	256 158 53	10 00 00	1,565 1,378 311	11
Total Number	Total Number of Mines Operated: 3			168.5	000	3,254	

TABLE B—Continued EL PASO COUNTY

Capacity of Mine Per Day, Tons	1,500 500 250 35 10	20	
Total Num- ber of Tons Produced	253.054 60,407 27,492 6,193	2,343 729 675 5555 150	352,300
Average No. of Men Employed	187 69 22 111	10 H ∞ 21 m	315
Number of Days Worked	212 250 251 251 83	249 287 76 176	218
Character of Coal	Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous	Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous	
Mine Post Office	Pikeview Colorado Springs Colorado Springs Colorado Springs	Yoder	
Name of Company	Pikes Peak Fuel Co Colorado Springs Co W. D. Corley. Altítude Coal Co	Golden Dawn Coal Co	of Mines Operated: 10
Name of Mine	Pikeview———————————————————————————————————	Golden Dawn	Total Number

FREMONT COUNTY

Coal Creek	Colorado Fuel & Iron Co	Rockvale	Semi-bituminous	168.6	231	133,508	800
Rockvale	Colorado Fuel & Iron Co	Rockvale	Semi-bituminous	102.5	149	44,990	009
Nonac	Colorado Fuel & Iron Co	Canon City	Semi-bituminous	195.5	2.2	28,818	160
Fremont	Colorado Fuel & Iron Co	Rockvale	Semi-bituminous	64.8	110	26,974	200
Chandler	Victor American Fuel Co	Chandler	Semi-bituminous	271.4	259	165,281	1.000
Kenwood	Wioton Amonioon Due	£ 0000000071	4	1000		-	007
	VICTOR WHICH ICAM F. RCI CO	INCII WOOD	Semi-Dicomingues	107.0	* *	100,11	400
Canon	Canon-Reliance Coal Co	Canon City	Semi-bituminous	216.5	69	65,348	450
Brookside	Orecchio Coal Co	Florence	Semi-bituminous	268.5	13	15,812	50
Double Dick	Double Dick Coal Co	Coal Creek	Semi-bituminous	251	23	14,797	09
Bluff Springs No. 1	Guiliano Coal Co	Coal Creek	Semi-bituminous	204	16	5,083	20
Bluff Spring No. 2	Bluff Springs Coal Co	Florence	Semi-bituminous	273	23	14,595	09
Griffiths	Griffiths Coal M. Co	Canon City	Semi-bituminous	213	11	10.079	09
Brewster	Canon Coal Association	Florence	Semi-bituminous	263	19	6.577	50
*District Canon	Canon District Coal Co	Canon City	Semi-bituminous	248	10	4,252	75
North Magnet	Donaldson & Perino	Florence	Semi-bituminous	252	6	4,764	20

60 75 40 25

FREMONT COUNTY—Continued

South Magnet		Rockvale	Semi-bituminous	251	11	2.930	20	
Down Counce	Canon United Coal Co	Canon City	Semi-bituminous	275	9	3,543	20	
+ Poorbio	Royal Gorge Coal Co.	Canon City	Semi-bituminous	246	4	3,082	20	
Carbon	Roccnio Coal Co.	Coal Creek	Semi-bituminous	080	10	2,308	15	
Willie		Tours and the second se	Comi bitumino	0 7 6	- 0	7,110	000	
Mohawk		Canon City	Semi-bituminous	193	[1,740	22	
					1	7,11,	10	
Total Number	of Mines Operated: 22			184.2	1,065	572,631		
*Formerly Florence-Canon	- 20							ST.
Formerly Waldron		GARFIELD COUNTY	Y					ATF

carbonera South Canon North Canon Rauman McLearn	Gilson Asphaltum Co South Canon Mine L. Co Rifle Coal Mines, Inc Rauman Coal Co Rifle Coal Co	Mack. Glenwood Springs Rifle. Rifle. Rifle.	Bituminous Bituminous Bituminous Bituminous Bituminous	213.5 274 290 213	10	11,17 7,41 6,39 4,33 1,66
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Frank De Boy	Glenwood Springs Bituminous	Bituminous	95	1	63
al Number	Total Number of Mines Operated: 6			231.5	3.9	31.2

*Formerly "Estes"

GUNNISON COUNTY

1,800 800 350 300	350 100 100 100 100	20	11
211,758 120,137 43,197 48,684 36,512	257 23,588 8,5880 5,21282 7,21282 7,033	1,346	566,315
157 128 159 76	50 339 13 13	1 3	599
195.2 275.3 241.8 269.8	202 99.2 177 123	85 158	219.1
Bituminous	Bituminous	BituminousBituminous	
Somerset Crested Butte Crested Butte Crested Butte Crested Butte	Crested Butte Baldwin Gunnison Somerset Baldwin	Gunnison Baldwin	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Calumet Fuel Co	Crested Butte Coal Co Rocky Mountain Fuel Co Ohio Creek Coal Co Oliver Fuel & Coal Prod. Co Baldwin Fuel Co	Bonner Coal Co	of Mines Operated: 12
Somerest Crested Butte Elk Mountain Horace Smith Anthracite	Bulkley No. 2. Alpine. Ohio Creek. Oliver. Baldwin-Star.	Bonner Carbon Creek	Total Number

TABLE B—Continued HUERFANO COUNTY

Capacity of Mine Per Day, Tons	1,800 1,200 800 800 800	$\begin{array}{c} 600 \\ 1,000 \\ 500 \\ 1,000 \\ 400 \end{array}$	700 500 500 500 500	350 600 500 125 200	100 100 50 25	
Total Num- ber of Tons Produced lo yibada	393,235 1, 219,848 1, 140,328 136,662 96,278	62,268 184,916 1 81,803 105,073 1 69,148	18,796 73,457 73,280 28,965 68,113	57,805 47,064 37,992 25,829 17,898	8,888 8,8889 1,594 1,296 1,276	1,967,437
Average Ko. of Men Employed	387 199 178 160	99 156 61 163 104	55 98 133 64 103	74 74 74 74 74 74	22 22 117 13 13 3	2,516
Number of Days Worked	227.9 212.4 223.1 211.8 163.3	127.5 232.5 218.6 264 217	196 194.1 217 108 158	225 144.6 157 241 179	221 203 60 206 76	202.8
Character of Coal	Bituminous	Bituminous Bituminous Bituminous Bituminous	Bituminous	Bituminous Bituminous Bituminous Bituminous	Bituminous Bituminous Bituminous Bituminous Bituminous	
Mine Post Office	Walsen Farr Lester Pictou Ideal	Tioga	Alamo	Walsenburg Strong Pryor Ojo	Rugby Walsenburg Rouse Rouse Rapson Tioga	
Name of Company	Colorado Fuel & Iron Co Colorado Fuel & Iron Co Colorado Fuel & Iron Co Colorado Fuel & Iron Co Colorado Fuel & Iron Co	Colorado Fuel & Iron Co	Barbour Coal Co	Gordon Coal Co Sunnyside Coal M. Co Union Coal & Coke Co Purity Coal Co Vesta Mines, Inc	Torrid Coal Co Black Canon Coal & Fuel Co Fruth & Stone Fruth & Stone Steve Mattivi & Sons Black Hills Coal Co	of Mines Operated: 26
Name of Mine	Robinson Nos. 1 & 2 Cameron Lester Pictou Ideal.	Kebler No. 2 Calumet No. 1 Calumet No. 2 Alamo	Barbour Mutual Ravenwood Maitland Toltec	Gordon Sunnyside Pryor. Reliance Vesta	Torrid	Total Number

JACKSON COUNTY

Total Number of Mines Operated: 2	oore No. 1	North Park Coal Co	Coalmont	Sub-bituminous	192 150	3 33	56,692	500
The state of the s	Total Number				189.8	99	59,192	

JEFFERSON COUNTY

1,000	
99,871 1,0	102,416
100	105
164.4	165.8
Sub-bituminous	
Littleton	
Leyden Coal Co	nber of Mines Operated: 2
Leyden No. 3	Total Number

LA PLATA COUNTY

122			
36,092 31,639 8,879 8,846 4,634	4,155 3,791 1,292 1,094 970	780 363 241 122 100	102,998
41 39 11 17 6	12176	01 H ∞ H H	144
243 1985 246 217	301 193 157 140 248	135 106 21 90 60	231.1
Bituminous Bituminous Bituminous Bituminous Bituminous	Bituminous Bituminous Bituminous Bituminous Bituminous	Bituminous Bituminous Bituminous Bituminous Bituminous	
Durango	Durango Durango Durango Hesperus. Mancos	Bayfield. Hesperus. Durango. Talfa.	
Calumet Fuel Co American Smelting & Ref. Co Sunshine Coal Co Durango Coal Co Baudino & Co	Black Diamond Coal Co. O. K. Coal Co. Triangle Coal Co. Frank Tilotsch. Valley View Coal Co.	Pine River Fuel Co. R. V. Gadberry. Champion Coal Co. Florida Grange No. 306.	Total Number of Mines Operated: 15
Perins Peak San Juan Sunshine *Durango Morning-Star	Black Diamond O. K. Triangle (Graves). Tipotsch.	Pine River G. & G. Champion. Grange.	Total Number

*Formerly New Porter

TABLE B—Continued LAS ANIMAS COUNTY

		Mine	Chanactar		yed Men Se	suoj	ons suo
Name of Company	,	Post Office	of Coal	Number of Day	Average Mo, of Employ	Total Y ber of T	Capaci Mine H Day, T
Colorado Fuel & Iron Co Colorado Fuel & Iron Co Colorado Fuel & Iron Co Colorado Fuel & Iron Co Colorado Fuel & Iron Co	Va. Mo Mo Tol Bel Bel	Valdez Morley Trollerburg	Bituminous Bituminous Bituminous Bituminous Bituminous	2888.2 2888.2 293. 284.8	356 358 218 185 202	438,572 386,300 236,356 231,853 229,279	1,800 1,000 850 1,000
Colorado Fuel & Iron Co		Sopris. Primero Delagua Cokedale	Bituminous	216.9 Clean 207.8 264 185.1	225 up 389 216 186	203,756 926 384,650 244,583 141,779	950 2,500 1,500 1,100
National Fuel Co	Bo Bro Ru Val	Bowen Brodhead Rugby Vallorso	Bituminous Bituminous Bituminous Bituminous Bituminous	266 266.5 201 254 232.3	122 191 63 36 57	116,913 150,413 38,291 30,556 49,797	500 700 300 300 1,000
Dick Coal Co	GO. Lu. Agi	Gordon	Bituminous Bituminous Bituminous Bituminous Bituminous	230.8 178.2 143 241 45	100 106 95 69 17	85,753 77,004 74,740 51,512 1,918	450 600 550 300
Rocky Mountain Fuel Co Rocky Mountain Fuel Co Prairie Canon Coal Co Rapson Coal M. Co Cedar Hill Coal & Coke Co	For Age Val	Forbes. Aguilar. Vallorso. Rapson. Ludlow.	Bituminous Bituminous Bituminous Bituminous Bituminous	112.6 145.7 219 174.4 176.5	34 23 28 16 16	19,517 12,388 19,987 16,056 13,249	350 300 300 100
Three Pines Coal Co Wellington Mining Co Jeffryes Fuel Co Santa Fe Coal Co T. P. Davis	Va. Wa Tri	Vallorso	Bituminous Bituminous Bituminous Bituminous	214 245 275 168 133	17 15 15 7	8,606 8,606	250 35 400 35

LAS ANIMAS COUNTY—Continued

Raldy Mt.	Trinidad Coal Co	Trinidad	Bituminous	1000	2	2.000	
Banner	Home Fuel & Supply Co	Trinidad	Bituminous	130	4	1,952	20
Sherman-Baldy	Anchor Fuel Co.	Trinidad	Bituminous	218	7	1,862	30
Stanley	C. O. Stanley	Boncarbo	Bituminous	90	15	1,669	75
Fairview	Shew Coal Co	Trinidad	Bituminous	213	63	1,142	
170	Douglet Cool	۰ دازنتی ۷	Dituminous	006	c	1 0.96	C
rawcett	Wilton Coal Co	Trinidad	Bituminous	2000	10	1,020 0.04	000
Pritchard	Dogalio Coal Co	Trining a	Ditumina	200	Q T	700	01
Pickiord	Doag 110 Coat Co	Timaga	Dicuminous	181	-i ·	180	10
Prospect	Prospect Coal Co	Trinidad	Bituminous	90	9	029	-
Beshoar	Halbert Coal Co	Trinidad	Bituminous	33	က	338	15
Vigil	Jose S. Vigil	Valdez	Bituminous	06	23	142	
Morris	Morris Coal Co	Trinidad	Bituminous	09	Н	52	10
Verdun	Dennis & Malone	Trinidad	Bituminous	20	1	22	
Total Number	Total Number of Mines Operated: 43			249.1	3 443	3 299 803	

MESA COUNTY

150 200 80 40	50 15 10	25 8 25 25	3000
76,368 17,729 6,021 4,004 3,436	3,196 3,016 2,603 1,971 1,663	1,647 1,437 1,381 563	500 333 295 127,096
22 5 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	m co co co	0000000	2 2 178
236 224 162 212 140	199 182 266.3 274 188	200 206 174 250 105	90 20 74 203
Semi-bituminous Semi-bituminous Semi-bituminous Semi-bituminous Semi-bituminous	Semi-bituminous Semi-bituminous Semi-bituminous Semi-bituminous Semi-bituminous	Semi-bituminous Semi-bituminous Semi-bituminous Semi-bituminous Semi-bituminous	Semi-bituminous Semi-bituminous Semi-bituminous
Cameo	Palisade	GrandJunction GrandJunction Fruita Grand Junction	Grand Junction Palisade Grand Junction
Grand Junction M. & F. Co Palisade Coal & Supply Co Midwest Coal Co W. D. Stokes Liddle & Jones	Riverside Coal Co	Hidden Treasure M. Co	Thomas Coal Co
Cameo	Riverside	Hidden Treasure	Thomas. P. V. G. & C. Total Number

TABLE B—Continued MOFFAT COUNTY

PITKIN COUNTY

	J	TIVIO COONTI					
Morion	J. R. Marcketti	Carbondale	Bituminous	137.8	2	1,869	40
Linghes	Wm. Hughes	Carbondale	Bituminous	66	က	853	
Placita	Rapini & Hughes	Carbondale	Bituminous	29	7	280	51
Total Number	of Mines Operated: 3			90.1	7	3,002	
	RIO	BLANCO COUNTY	TY				
Oldland	Electric Coal Co.	Meeker	Bituminous	279	es :	1,996	
Black Diamond	Electric Coal Co	Meeker	Bituminous	220	000	1,904	20
Pollard	Electric Coal Co.	Meeker	Bituminous	245	00 0	288	9.6
Lion Canon	Lion Canon Coal CoThos D Foreman	Meeker Meeker	Bituminous	205	7	315	3 :
Nille Mile	Ed Foirfield	Meeker	Bituminous	08	1	167	က
Curtis Creek	R. C. Reinau	Meeker	Bituminous	90	1	180	2
Douglass Creek	Jones & Trachta Robert McKee	Rangeley. Meeker	Bituminous	120 90		155	
Total Number	of Mines Operated: 9			204.2	16	6,175	
		ROUTT COUNTY					
Oab Hills No 1	Moffat Coal Co.	Oak Creek	Bituminous	62.2	118	117,730	2,000
Oak Hills No. 2	Moffat Coal Co.	Oak Creek	Bituminous	50.3	113	115,612	2,000
Harris	Colorado & Utah Coal Co.	Mt. Harris	Bituminous	6.69	210	204,213	3,000
Pinnacle	Victor-American Fuel Co	Oak Creek	Bituminous	27.5	195	152,632	2,000
Wadge	Victor-American Fuel Co	Mt. Harris	Bituminous	25.8	103	60,455	1,200
Havden No. 3	Hayden Bros. Coal Corp	Haybro	Bituminous	83.7	163	124,993	1,200
Bear River	Fraker Coal Co	Bear River	Bituminous	148		64,121	200
MacGregor	McNeil Coal Co.	MacGregor	Bituminous	0.00	4 4	95,408	300
Wolf Creek (Regal)	Keystone Coal Co.	Oak Creek	Bituminous	80	16	3,487	200
Sloony Cat	Sleepy Cat Coal Co.	Havden	Bituminous	180	20	2,957	30
Babson	Babson Coal Co.	Hayden	Bituminous	154	20	2,917	40
Seven Points	Seven Points Coal Co	Oak Creek	Bituminous	268	¢	1,973	20
Butcher Knife	Butcher Knife Coal Co	Bear River.	Bituminous	207	P 01	1,30,	200
Maccioney	A Tinn P. Conc	Howdon	Bituminone	7.6	6	904	
Mutual	A. C. Linn & Sons. Arthur Coal Co.	nayuen Oak Creek	Bituminous	200	1	120	20
ChergoBlock	Tom Chergo	Oak CreekSteamboat Springs	Bituminous	93 74	со	243	10
Total Number	of Mines Operated: 19			78.9	1,131	917,717	

TABLE B-Continued

SAN MIGUEL COUNTY

Capacity of Mine Per anor, Tons	8 1	
Total Num- ber of Tons Produced	587 266 194	1,047
Average No. of Men Umployed	¢1 H H	41
Number of Days Worked	197 120 90	151
Character of Coal	Sub-bituminous Sub-bituminous Sub-bituminous	
Mine Post Office	Norwood Norwood Norwood	
Name of Company	W. R. Keck L. J Gray S. J. Royer	Total Number of Mines Operated: 3
Name of Mine	Keck Gray Royer	Total Number

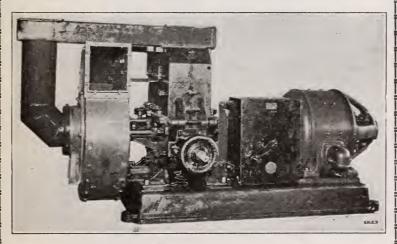
WELD COUNTY

2,500 1,000 1,900 2,000 1,600	1,000 2,000 600 500 250	800	
281,293 101,798 304,209 302,605 222,843	134,280 104,271 91,499 84,953 8,023	71,427 3,684 3,244	1,813,629
298 73 191 211 140	000000 000000	59 24	1,326
293 158 247 291.5 189.3	165.2 166 194.4 257.5	221.2 259 49	232.8
Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous	Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous	Sub-bituminous Sub-bituminous Sub-bituminous	
Serene Frederick Dacona Erie	Dacono	Frederick	Colorado: 261
Rocky Mountain Fuel Co Rocky Mountain Fuel Co National Fuel Co Boulder Valley Coal Co	Consolidated Coal & Coke Co Grand Junction M. & F. Co Shamrock Coal Co	W. E. Russell Coal Co. Franklin Coal Co. Hunziker & Hodge.	Total Number of Mines Operated: 13
Columbine. Grant. Puritan. Clayton. Boulder Valley.	Baum	Russell Witherbee Eureka	Total Number Total Number

THE ROYAL FUEL COMPANY

Producers of High Grade BITUMINOUS

C-0-A-L



Rock Dusting Machine in Use at Royal Mine (Patented)

Royal Coal is hand mined by experienced miners and is not shattered by blasting.

Royal Coal has a low ash and low moisture content. Royal Coal will store indefinitely without deterioration.

GENERAL OFFICE DENVER, COLORADO

TABLE C
PRODUCTION OF COUNTIES BY MONTHS—1926

Month	Archuleta	Boulder	Pelta	Dolores	Elbert	El Paso
January		77,276	7,132		513	43,881
February		55,201	4,310		211	33,380
March	*********	58,738	3,477		253	37,203
April	13	41,691	2,953		97	28,284
May	24	20,817	2,550		21	19,425
June	16	17,591	1.959		25	15,740
July	10	19,107	3,206		16	16,207
August	6.2	35,735	3,876		24	15.079
September	79	67.417	7.363		76	22,843
October	233	65,633	8.155		226	31.340
November	154	61,846	11,103		345	40,854
December	515	79,797	13,754	5,220	1,447	48,064
Totals	1,106	600,849	69,838	5,220	3,254	352,300

Month	Fremont	Garfield	Gunnison	Huerfano	Jackson	Jefferson
January	72,556	3.355	45.875	197,000	5.777	11,859
February	31,372	2,502	42,200	99,026	4.852	9.182
March	30.010	2,195	36.065	110.530	5.142	10,458
April	56,922	2,088	38,397	150,261	3,948	8,374
May	39,670	1.775	38.526	110.749	2,203	5.945
June	28,550	1,704	37,656	118,417	1,927	5,652
July	37,322	1,566	45,208	143,425	1.654	5,795
August	41,689	2,055	50,844	163,638	2,901	5,603
September	49,915	2,551	59,210	169,729	4,922	7.886
October	57,621	3.798	57.398	202,507	8,421	8,835
November	66,377	4.151	57.565	244.526	7.399	10,155
December	60,627	3,552	57,371	257,629	10,046	12,672
Totals	572,631	31,292	566,315	1,967,437	59,192	102,416

Month	La Plata	Las Animas	Mesa	Moffat	Montezuma	Montrose
January	10,153	290,902	11,842	617	950	19
February	7.873	246,342	8,882	485	610	132
March	7,640	270,809	7,760	306	496	82
April	7,107	262,536	6,683	186	276	15
May	7.715	242.537	6,463	180	256	
June	6,699	247.351	6.388	125	272	6.7
July	7,188	239,853	7,438	5.0	125	3.0
August	8,185	274.840	9,245	74	332	48
September	9,655	285,320	14.579	295	397	67
October	10.722	290,599	16.866	610	687	
November	11.150	311,285	14,914	687	713	
December	8,911	337,429	16,036	2,581	1,042	631
Totals.	102,998	3,299,803	127,096	6,196	6,156	1,091

Month	Pitkin	Rio Blanco	Routt	San Miguel	Weld	Total
January	199	1,001	80,768	-1	221,690	1,083,665
February	62	583	44,508		159,087	750,800
March	22	399	49.322		161,900	792.807
April	63	330	84,660		111 965	806,849
May	5.1	227	59.260	1000	62.380	620,774
June		191	16,237		57.308	593,875
July -	6.7	171	77.203	- 111	62,654	668,295
August	178	235	73.364	- 42	84.562	772,569
September	441	497	80.961		158.872	943.075
October	513	316	100.945		195,068	1.060,493
November	653	857	93.325		243,267	1.181.326
December	453	1,368	127,164	1,047	294,876	1,342,232
Totals	3,002	6.175	917.717	1.047	1.813.629	10,616,760

TABLE D
SHOWING INCREASE AND DECREASE BY COUNTIES, 1925-1926

Counties	Tons Produced 1925	Tons Produced 1926	Increase	Decrease
Archuleta	1.307	1,106		201
Boulder	615,943	600,849	************	15,094
Delta	73,483	69,838		3,645
Dolores	10,100	5,220	5,220	0,010
Elbert	2.008	3.25	1,246	
El Paso	330,228	352,300	22.072	
Fremont	647,198	572,631		74,567
Garfield	31,273	31.292	19	12,001
Gunnison	518,813	566,315	47.502	***********
Huerfano	2,141,224	1,967,437	41,000	173,787
Jackson	63,221	59,192		4,029
Jefferson	103,348	102,416		932
La Plata	105,245	102,410		2,247
Las Animas	3,018,164	3,299,803	281.639	4,441
Mesa	137.381	127,096		10,285
Moffat	7.937	6,196		1,741
	8,047	6,156		1,891
16	2.013	1.091		922
	892	1,091		892
		3,002		
Rio Blanco	5,994		791	2,992
	5,384	6,175	191	0.0.07
Routt	1,006,390	917,717	254	88,673
San Miguel	793	1,047		
Weld	1,614,101	1,813,629	199,528	
Totals	10,440,387	10,616,760		

TABLE E

COKE PRODUCED IN 1926 BY COMPANIES AND COUNTIES

Companies	Total No. of Ovens Used	Total Tonnage	Counties	Total No. of Ovens Used	Total Tonnage
American Smelting and Refining Co	264 1/2	* 126,986	La Plata	271/2	15,119
Colorado Fuel and Iron Co.	336	665,531	Las Animas	120	184,459 592,939
Totals	6001/2	792,517		6001/2	792,517

REMARKS:

Average number of days worked at the coke ovens	348
Average number of men employed at the coke ovens	230
Number of tons of coal made into coke	1.465

SHOWING BY COUNTIES COAL PRODUCTION OF 1926 IN PREPARED SIZES

Counties	Mine Run	Lump	Nut	F'ea	Slack	Total Tons
Archuleta Boulder Delta Delta Delores	75, 63 8,086 8,080 1,7220 1,716	228,671 34,133 915	54,837 13,694 375	1,312	240,161 13,166 248	1,106 - 600,849 (9),838 (5),220 5,220 3,254
El Paso Fremont Sarfiel Gunnison Huerfanc	79,684 57,437 17,750 414,564 466,251	94,010 272,924 6,612 96,949 676,811	41,676 87,960 4,690 29,641 286,392	357 593 261,412	136,553 154,310 1,647 25,161 276,571	352,300 572,631 31,292 566,315 1,967,437
Jackson Jefferson La Plata Las Animas Mesa	6,922 31,131 85,460 1,214,184 60,298	18,786 24,211 6,521 421,324 31,334	14,469 5,330 2,997 208,394 6,343	390 1,185 322,659 2,132	19,015 41,354 6,835 1,133,242 26,984	59,192 102,416 102,998 3,299,803 127,096
Moffat Montezuna Montrose Pitkin Rio Bianco	3,967 1,2967 8,002 622	1,289 3,657 209 3,624	302 54 15 1,347		638 1,152 24 582	6,196 6,156 1,091 3,002 6,175
Routt San Miguel Weld	151,470 681 110,769	424,398 333 765,516	114,269	20,469	207,111 33 628,053	917,717 $1,047$ $1,813,629$
Totals	2,797,851	3,112,605	1,073,368	666,007	2,966,929	10,616,760

*85,196 tons Anthracite and 43,197 tons Semi-anthracite coal included.

NOTE-In the Slack, some mines include Pea and other Nut and Pea coal. The Egg and Grate coal is included in the Nut coal. (The Egg and Grate coal reported is from Boulder, Las Anímas, Routt and Weld Counties.)

COAL PRODUCTION OF COLORADO FROM 1873 TO 1926, INCLUSIVE

Year	Tons	Year	Tons
1873	69,977	1900	5,495,734
1874	87,372	1901	6,021,405
1875	98,838	1902	7,522,923
1876	117,666	1903	7,775,302
1877	160,000	1904	6,776,551
1878	200,630	1905	8,989,631
1879	322,732	1906	10,308,421
1880	375,000	1907	10,965,640
1881	706,744	1908	9,773,007
1882	1,161,479	1909	10,772,490
1883	1,220,593	1910	12,104,887
1884	1,130,024	1911	10,197,595
1885	1,398,796	1912	11,016,948
1886	1,436,211	1913	9,268,939
1887	1,791,735	1914	8,201,423
1888	2,185,477	1915	8,715,397
1889	2,400,629	1916	10,522,185
1890	3,075,781	1917	12,515,305
1891	3,512,632	1918	12,658,055
1892	3,771,234	1919	10,406,543
1893	3,947,056	1920	12,514,693
1894	3,021,028	1921	9,141,947
1895	3,339,495	1922	10,003,610
1896	3,371,633	1923	10,336,735
1897	3,565,660	1924	10,501,088
1898	4,174,037	1925	10,440,387
1899	4,826,939	1926	10,616,760



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Allis - Chalmers Manufacturing Company

> 525 SYMES BUILDING

> > DENVER

Centrifugal Pumps Motor and Steam Turbines

MINE DISASTERS AND MISCELLANEOUS FATAL ACCIDENTS, 1926

REPORT OF EXPLOSION AT THE BEAR CANON MINE No. 3, ON JANUARY 29, 1926

The mine is located 2½ miles southwest of Berwind on the C. & S. R. R., Las Animas County, Colo. Operated by the Bear Canon Coal Co., Trinidad, Colo. There were 34 men in the mine at the time of the explosion; three were killed instantly, seven burned, one of whom died later. The mine is opened by two drifts, in the upper series; character of coal, bituminous; height of coal, 4 feet. Ventilated by one 6-foot Jeffrey fan, single port of entry. Fan exhausting. Mine ventilated by two separate splits and worked by open lights, and classified as non-gaseous.

The mine was opened in 1919, continued in operation until 1923, when closed down for a period of $2\frac{1}{2}$ years, reopening in November, 1925. During the closed period of the mine, a new slope was driven from the surface due south, to intersect the 5th and 6th west entries.

On January 30th, accompanied by Hugo H. Machin, Deputy Inspector; David Griffith, Mutual Insurance Inspector; Chas. Beuchat, General Manager; Jas. McKeown, Superintendent of both mines No. 3 and No. 6, and also mine foreman of No. 3, and Wm. MacGregor, fireboss. We entered the mine by the new slope and examined all the workings in that district which had been working immediately prior to the explosion, and found no explosive gas. Continuing the examination of the workings which had been temporarily closed for a period of 2½ years, we came to the 2nd east entry, where apparently three company men were removing material at the time of the explosion. At this point, between rooms 1 and 2, found track tools and discovered a considerable body of explosive gas, thus prohibiting further examination at this time.

On February 4th, accompanied by Messrs. Griffith, McKeown, McGregor, Denny, and Marshall of the Bureau of Mines, Deputy Inspector Machin, and Chief Inspector Dalrymple, I inspected mine No. 3, and reached the face of 2nd east entry without finding any indications of gas. Upon entering 1st east entry through the last crossent, gas was found about twenty feet inside of this point. Retreating, we then entered 1st east entry from the lower end, encountering gas at lower room neeks, thus preventing further exploration of this section for the time being.

Again on February 8th, accompanied by Messrs. McKeown and Wm. Gold, the latter had in the meantime been put on as mine foreman in No. 3 mine, I examined all the abandoned workings in the 1st east entry, including rooms and pillars, and found them all clear. So far as accessible no new caves were found.

If the three men whose bodies were found in the 2nd east district were sent into this district to work on January 29, 1926, the fireboss should have known it so that a proper examination by him could have been made before the men entered. The fact that he did not know, shows lack of discipline and supervision by mine foreman. Failure to connect 1st and 2nd east entries before stopping them also shows lack of supervision by whoever was mine foreman at that time. Failure to crosscut the rooms on the 5th and 6th west, and 3rd and 4th south entries driven since the last state inspection shows a disposition to violate the law on the part of the company, as well as the mine foreman.

On February 4th, several safety lamp tests were made at the face of 2nd west entry without finding any trace of gas (CH₄). See samples of air attached, taken at this point on above date:

Carbon dioxide (CO ₂) .14 Oxygen (O ₂) 20.65 Carbon monoxide (CO) .00 Methane (CH ₁) .47 Hydrogen (H ₂) .00	$ \begin{array}{r} .12 \\ 20.68 \\ .00 \\ .49 \\ .00 \end{array} $	Ethane (C_2H_0) Hydrogen sulphide (H_2S) Unsaturated hydrocarbons $(C_2H_4, \text{ etc.})$ Sulphur dioxide (SO_2)

It is the opinion of the writer that a coal company employing a man to superintend two mines half a mile apart, and producing jointly 460 tons of coal daily, and also act as mine foreman at one of those mines, and another man to act as mine foreman at one of these mines, and fireboss at the other, has no conception of a day's work, and in doing so they are not working for the best interests of anyone connected with coal mining.

There being no fresh falls in 1st east, inclines me to believe that the accumulation of gas causing explosion had been in existence for some time prior to the explosion, and that it was brought out into contact with the naked lights on 2nd east either by a fall of roof occurring in the inaccessible working of the 1st east, or by a derangement in the ventilation. If this be true, it is apparent that the caved works in 1st east were not examined weekly as required by law, again showing laxity in supervision by the mine foreman.

The above inspections bring forth the following facts:

That three men were working in 2nd east section at the time of the explosion; that the 1st and 2nd east workings were not examined by fireboss before the other employes entered on January 29, 1926; that the 1st east entry had been advanced a considerable distance beyond 2nd east entry, which was 48 feet in advance of last crosscut with no crosscut at face; that several rooms on 5th and 6th west entries and on 3rd and 4th south entries since my last inspection had been put in operation and had been driven from 80 to 175 feet without any crosscuts to connect them; that the face of 2nd east entry was dated January 27, 1926, by mine foreman,

Jas. McKeown; that if coal mines are to be classified as gaseous and non-gaseous, the approved flame safety lamp should not be used as the instrument in determining the classification (see air samples); that Mr. McKeown was employed as Superintendent at No. 6 and No. 3 mines, and also as mine foreman at No. 3 mine; that so far as accessible no fresh falls had taken place in 1st east workings.

This is the second explosion inside of a week in Colorado, both of them caused by open lights being used in what is classified as non-gaseous mines. How many more such experiences are going to be necessary in order to prohibit open lights in the coal mines of this state? Personally, I am opposed to open lights in any coal mine, and I hope that our recent and costly experiences will be the means of securing the co-operation of the coal operators in prohibiting open lights in any of our coal mines.

It is to be regretted that competition for business is so great, or that the question of costs is such, that any coal company will attempt to start and finish rooms without crosscuts between state inspections.

On account of the coarseness of the coal dust and the amount of inert material present, coal dust played but a small part in the explosion.

Through their failure to drive crosscuts at the proper time and examine the mine as provided by law, the company and mine foremen are held responsible for the explosion. The following is a list of dead:

Tony Vegeris, age 45 years, married, one child, Greek; wife, Lula Vegeris, Bear Canon.

Jim Kontogianes, age 46 years, married, Greek, three children; wife, Olympa Kontogianes, Bear Canon.

Christ Karmos, age 35 years, married, four children, Greek; wife, Maggie Karmos, Bear Canon.

Abe Cattani, age 44 years; injured and died later.

(Signed) W. M. LAURIE, Deputy Inspector, Dist. No. 1.

Lafayette, Colo., Feb. 17, 1926.

James Dalrymple, State Inspector of Coal Mines, Room 414 State Office Building, Deuver, Colorado.

Dear Sir:

On January 23, 1926, an explosion occurred at the Harvey Gap mine some time between 9:30 and 10:00 a. m.

This property is located four miles north of Silt, a small station on the D. & R. G. W. railroad. The property is owned by the Colorado Fuel & Iron Co., and was operated by Daniel Bracken, under a lease.

Seam worked is known as the Anderson, and is seven feet in height, pitching about 56 degrees. Rooms are driven up the pitch, a chute is carried in the center of the rooms, with a manway on each side.

The mine was naturally dry and dusty, sometimes gas was detected by officials, but in all my visits to this mine I never detected any. When coal is being withdrawn from the chutes there is considerable fine coal dust thrown into the mine air, and deposited in different parts of the mine. A sprinkling system was installed some time ago, but not often used. Coal dust was a very prominent factor in the explosion.

A fire broke out in the mine soon after the explosion. When I visited the mine the day after the explosion, accompanied by Mr. R. Prendergast and his brother, also Mr. W. E. Dickson, inspector for the Associated Insurance Companies, smoke was issuing from two openings at the top of the mountain.

From the indications at the portal of the main entry, the force of the explosion was outward.

Mr. Bracken and the horse he was driving were blown about 300 feet from the mine opening.

William Cook, a boy of about eight years of age, who came to the mine with his father for a load of coal, and who was standing about 300 feet from the mine opening, was killed, he being in direct line of the explosion. His father was slightly bruised. Their team and wagon were blown about fifty feet into a gulch.

Mr. Otten, the miner, was found dead at his working place. his body was badly burned.

On Tuesday morning, January 26th, accompanied by James Dalrymple, State Inspector of Coal Mines, and W. E. Dickson. Inspector for the Insurance Companies, we entered the mine, traveled along the main entry to room No. 8 or No. 9, where we found a fall of rock and coal on fire and which closed the entry. This looked as though it might have slid down from the room. There was no evidence of extreme violence or intense heat at this point; the only evidence of this kind was at and near the mouth of the main opening.

The testimony given at the inquest and also obtained by me proves beyond a doubt that Mr. Bracken did not examine the mine regularly each morning before the men entered, and that the mine had not been sprinkled for two months.

The explosion was the result of a naked light coming in contact with explosive gas.

Daniel Bracken is held responsible for the explosion because of his failure to properly examine and wet down the mine.

(Signed) JAS. W. GRAHAM. District No. 4, Deputy Inspector.

LIST OF FATAL ACCIDENTS WHICH OCCURRED IN THE COAL MINES OF COLORADO DURING THE YEAR 1926

January 11-MIKE STEPAN, SR., Austrian, pick miner, experience 25 years, age 43 years, married, six children, employed by The Crested Butte Coal Co., at the Bulkley No. 2 mine, Gunnison county, was injured November 27, 1925, and died on the above date. Deceased was shoveling coal into a car when a piece of rock fell from the roof, striking him on the head, shoulders and back, knocking him down. He probably fell on a sharp piece of coal, hurting his stomach. His injuries were not serious at first and he worked until January 4, 1926, and was taken violently ill in the mine on that day and died on the above date. The accident was unforeseen and is classed as "unavoidable." The cause of death was debatable, but was finally decided by the State Industrial Commission as due to the injuries sustained, and the insurance was allowed his family. The settlement of this case by the Industrial Commission delayed the writing of this accident and the charging it to the industry.

January 16—JOHN GARCIA, Mexican, machine miner, experience 18 months, age 24 years, single, employed by the Bear Canon Coal Co., at the Bear Canon No. 6 mine, in Las Animas county, was killed by a fall of rock. Deceased and partner were loading a car in a room when a rock gave way on the right side of the place, striking him so severely that he died in a few hours. The place was well timbered, and accident was unforeseen, and is not charged to negligence on part of anyone concerned.

January 19—TOM KARMOS, Greek, pick miner, experience 36 years, single, employed by the Bear Canon Coal Co., at the Bear Canon mine, in Las Animas county, was killed by a fall of rock. Deceased and his partner were drawing a pillar when a rock fell out of the roof from between two props set about 18 inches from face of pillar. Between the two props, which were three feet apart, there was a slip which was invisible. The pillar all across the face was well timbered, and the accident is classed as "unavoidable."

January 23—DAN BRACKEN, American, mine foreman and part leasor, experience 25 years, age 58 years, married, two children, and,

ERNEST OTTEN, American, pick miner, experience 10 years, age 39 years, married, two children, employed by Bracken & Cozza, and,

WILLIAM COOK, American, a child of 8 years old, who was with his father who was getting a load of coal from the mine. The boy and his father were 250 feet from the opening of the mine, but in the direct path of the force of the explosion. The boy was killed instantly and the father severely injured.

It is believed that Otten, who went into the mine about 9:30 A. M. with his carbide lamp, ignited a body of gas, and, as the

mine was full of dust, caused a general explosion and killed him and Bracken and the little boy outside. From evidence obtained, the explosion was the result of negligence on part of Bracken, who did not examine the mine for gas before starting to work and allowed an accumulation of inflamable gas to gather. The mine took fire immediately after the explosion and exact details as to where the initial point of the explosion was could not be determined as it was impossible to get into the mine. See detailed report in the Annual Report of 1926.

January 29—TONY VERGIS, Greek, age 45 years, married, one child,

JIM KONTOGIANES, Greek, age 46 years, married, 3 children,

CHRIST KARMOS, Greek, age 35 years, married, 4 children, and,

ABE CATTANI, Italian, widower, 3 children, age 44 years, all employed by the Bear Canon Coal Co., at the Bear Canon No. 3 mine in Las Animas county, were killed by a gas explosion. The explosion occurred in old workings which had been idle for two and one-half years, where three company men were supposed to be removing rails and mine cars. It appears that two of the men reached this point about 10 o'clock in the morning, and came in contact with a body of gas and ignited it with their open lights. No examination had been made of this part of the mine prior to the men going in. The fire boss claims he was not notified that men were working in that district as it had been shut down for a long period. It was considered old workings and was examined once a week only. This mine was considered non-gaseous as no gas had ever been detected. The cause of the accumulation of gas is not known, possibly a cave on some of the pillars was responsible. There were 34 men in the mine when the explosion occurred. Three were killed instantly, and seven burned, one of which died a few days later. Since the last inspection of the mine by the Department, rooms were advanced 80 to 175 ft. without being connected by cross cuts, a clear violation of the law. On account of the coarseness of the coal dust and the amount of inert material present, coal dust played a small part in the explosion. The management, in failing to drive cross cuts and examine the mine, must be held responsible for the explosion.

February 4—FRANK GONZALES, Mexican, pick miner, experience 7 years, age 29 years, married, 1 child, employed by The Rocky Mountain Fuel Co. at the Columbine mine, Weld county, was killed by a fall of coal and rock. The height of the coal where the accident occurred in 7½ feet and deceased was taking down the top coal when a large piece came down, striking deceased before he could get away and killing him instantly. The place had been examined by the mine foreman ten minutes prior to the accident and deceased was ordered to take down the top coal which he was

carrying out. The accident was unforeseen and no one is held responsible for it.

February 12—JESUS BERUMEN, Mexican, pick miner, experience 9 years, age 32 years, single, employed by The Empire Coal Mining Co. at the Empire mine, Las Animas county, was killed by a trip jumping the track and knocking out a prop which struck deceased on the head, fracturing his skull, causing his death a few hours later. Deceased's partner was at the hoist waiting for the signal to be given by deceased to lower an empty trip so that switching could be done. Deceased was standing below the frog of the switch on the crib side, where the bell line was installed, when the trip was lowered, two of the front cars left the rails at the frog, striking a prop which was used in connection with the bell line, knocking it out with the above stated disastrous results. The accident was a misadventure incidental to the hazards of this kind of work.

February 27—RAY COSTOR, American, day man, experience 8 years, age 32 years, married, two children, employed by The Rapid Creek Mining, Tunnel & Power Co., at the Genter mine, Gunnison county, was killed by a fall of roof. The accident occurred at the face of an entry. Four shots had been fired at noon and the mine foreman, after he returned from his lunch, examined the roof and found water dripping down, although the roof sounded solid with no indications of looseness, but he decided to set cross bars. While he and deceased, with two other men, were making hitches in each rib to set the cross bars, a large slab of rock fell from the roof, striking deceased and killing him instantly. The roof showed a smooth slip running parallel for about ten feet with the entry. It is possible had two or three center props been set before starting to cut into the ribs to set the cross bars, the accident might have been avoided. However, the preparations were being made to secure the roof and the accident is classed as unavoidable.

March 2—HARRY KOCHANOWSKY, Pole, machine miner, experience 4 years, age 26 years, married, one child, employed by The American Smelting & Refining Co., at the Boncarbo mine, Las Animas county, was killed by a fall of rock. Accident occurred at the face of a pillar, where deceased was loading coal when he released a piece of draw slate, which gave way from a slip that had not been discovered. The place was well timbered and deceased considered a good workman. The accident was unforeseen and is classed as unavoidable.

March 5—PONCIANO HERNANDEZ, Mexican, machine miner, experience 8 years, age 35 years, single, employed by The Colorado Fuel & Iron Co., at the Pictou mine, Huerfano county, was killed by a fall of rock from the roof. From the evidence given, it appears that the accident was due to the hazard of the work for which no one could be held responsible.

March 9—JOHN B. STRETZ, German, oiler, experience 37 years, age 64 years, married, five children, all of age, employed by The Rocky Mountain Fuel Co., at the Acme mine, Boulder county. was injured by a cage striking him, at the bottom of the shaft, on January 28, and died on the above date. The accident occurred a few minutes before quitting time and a number of men were waiting at the bottom of the shaft to be hoisted to the surface. Deceased was also waiting and either became confused and stumbled into the shaft or crossed over to get the cage from the north side and was caught by it before he was able to get out of the way. Deceased had worked at the bottom of the shaft a number of years and he was known to cross over the shaft to go to the north side, but he always used the run-around. The accident was a misadventure for which no one could be held responsible.

March 9—ALEX MORRISON, American, driver, experience 11 years, age 23 years, employed by The Royal Fuel Co., at the Royal mine, Las Animas county, was killed by being run over by a loaded car. Deceased was taking a four-car trip down a slant to an outby parting of the slope. Evidently he was riding on the bumpers of the front car when he was thrown off by a sudden jerk of the trip and before he could get out of the way was run over. There was a good clearance between the track and the rib, and the track was in a good condition. Deceased was considered a good driver with a lot of experience in that kind of work. It was a misadventure for which no one can be blamed.

March 23—ELMER O. STEWART, American, cager, experience 7 years, age 23 years, single, employed by The National Fuel Co. at the Monarch No. 2 mine, Boulder county, was killed by a piece of coal falling on him in the shaft. Deceased was pushing a truck load of timbers off the cage when he was struck. The coal had been hoisted about an hour before and no doubt, in lowering the timbers, the coal was disturbed, causing a piece to fall down. The accident could have been avoided had the bonnets been put back in place after the shaft timbers were lowered.

March 24—CASEMARO LUJON, Spaniard, machine miner, experience 30 years, age 47 years, married, two children, employed by The Dick Coal Co., at the Dix mine, Las Animas county, was killed by a fall of coal. Deceased was working along the rib to the back of a cut when a piece of coal off the shot coal gave way. The accident was unavoidable.

April 8—CHARLES H. STOLL, American, cager, experience 2 years, age 31 years, married, two children, employed by The Victor-American Fuel Co., at the Chandler mine, Fremont county. was injured on the 7th of April by rock or coal falling down the shaft. He was caging at the bottom of the shaft when a piece of rock or coal fell through an eight inch space between the bonnet of the cage and the shaft lining and struck him on his head, fracturing his skull and causing death on the above date. The accident was unforeseen and is classed as "unavoidable."

April 12—ANDRES ALVARADO, Mexican, pick miner, experience 6 years, age 39 years, married, six children, employed by the Calumet Fuel Co., at the Calumet No. 1 mine, Huerfano county, was killed by a fall of rock. Deceased and his partner were extracting pillars, the place was well timbered, but an invisible slip was running along the line of face and released a slab of drawslate which fell on Alvarado, killing him instantly. The accident was unforeseen and is classed as "unavoidable."

April 22—OLIVER EVANS, American, machine miner, experience 3 years, age 42 years, single, employed by the Boulder Valley Coal Co., at the Boulder Valley mine, Weld county, was crushed to death under a loaded car of coal. Deceased was standing on an empty track of the parting when a driver came down the entry with his mule and loaded car. Arriving near the double parting, the driver warned deceased to look out, but the mule increased his speed and the driver neglected to, or was unable to throw the latch over the switch point, and the result was that the car came down the empty track instead of turning into the loaded track. Deceased was knocked down and the car ran over him. He died shortly afterwards. The responsibility of the accident rests on the driver in failing to throw the latch for the loaded track and partly on deceased in being on the parting 1,500 feet away from his working place.

May 12—JOHN PINTER, Austrian, pick miner, experience 15 years, age 49 years, single, employed by The Caliente Coal Co., at the Ravenwood mine, Huerfano county, was killed by a fall of rock. There was no eye witness to the accident, but from an examination of the place, it appears that deceased had mined some coal off the rib and thereby exposed an invisible slip in the roof, releasing a rock between the props and the face, which fell on him, killing him instantly. The accident is classed as unforeseen, yet might have been avoided had the mine foreman, who had marked the slab that fell as dangerous, warned deceased.

May 12—JOHN PERNE, Austrian, machine miner, experience 17 years, age 41 years, married, one child, employed by the Gordon Coal Co., at the Gordon mine, Huerfano county, was killed by a fall of rock. Deceased was in an entry on his way to work when he was caught by a fall of rock giving way from an invisible slip in the roof. The entry was well timbered, the slip fell out between two cross bars. The accident was unforeseen and therefore unavoidable.

May 25—A. J. LEBLOW, American, timberman, experience 25 years, age 45 years, married, one child, employed by The National Fuel Co., at the Thor mine, Las Animas county, was killed by being caught between a chain pillar and car. Deceased and his partner were timbering on the 1st west slope. A trip passed them and deceased left his partner and went to the 3rd south switch, while there, the trip returned and eaught him. The trip presumably was set for the 5th south, and some one must

have set the switch for the 3rd south. Deceased was the only one around the switch and whether he changed it or not, is not known. The accident was a misadventure for which no one is held responsible.

May 28—R. C. CLEMENTS, American, fire boss, experience 14 years, age 33 years, married, no children, and,

RADI TEPOVAC, Servian, pick miner, experience 17 years. age 45 years, single, both employed by The Colorado Fuel & Iron Co., at the Robinson No. 2 mine, Huerfano county, were killed by falls of rock. Clements was making his morning examination of the mine as fire boss. He reported an entry pillar as working. The miners assigned to this district, were instructed to stay out of the place until another examination had been made. Clements was sent back and was caught by a fall of rock while he was making the second examination. His legs were pinned under the rock and he could not extricate himself and called for help, and, while his rescuers were trying to release him, a second fall took place causing his death, and that of Radi Tepovae, who was trying to rescue Clements. The other men escaped uninjured. The accident was unavoidable.

May 29—OSCAR HILL, Finlander, rollerman, experience 23 years, age 43 years, married, three children, employed by The Calumet Fuel Co., at the Somerset mine, Gunnison county, was found dead on the main slope. The cause of death is unknown as there was no evidence of a rock or coal fall and there were no wires on the side of the track where he was found. The only injury on him was the large toe of his right foot broken and almost cut off, but how it happened, could not be ascertained.

No fatal accidents in June, 1926.

July 15—OTIS C. MORRIS, American, driver, experience 16 years, age 40 years, married, five children,- employed by The National Fuel Co., at the Puritan mine, Weld county, was killed by being run over by one or more loaded cars. Deceased had gathered a five-car trip of coal and had set sprags under the wheels of the front car, because a few feet ahead there was a dip of about eight per rent. He stated that when he got on the bumpers of the front car, the mule started down the hill and, when the trip was moving along, the mule lunged backwards. In his effort to get out of the way of the mule, his foot slipped off the car and he fell with one leg under the car. He did not state how many cars ran over his leg before he managed to get it out from between the wheels. He called for help and was taken to a hospital, but was so seriously hurt that he died on the same day of the accident. The accident was a mischance due to the danger of the calling.

July 20—JOSEPH C. HAMLIN, American, trapper, experience 1 year, age 22 years, single, employed by The Victor-American Fuel Co., at the Chandler mine, Fremont county, was killed

by a runaway trip. A trip of empty cars was going down the main slope and became uncoupled, allowing 19 cars to run wild down to the first west parting, where men were permitted to wait for the man trip. Here the trip left the track and caught deceased, who was sitting near there and killed him. The management of the mine is held responsible for the accident by allowing the men to congregate on the main slope parting to wait for the man trip and not furnishing a proper waiting place clear of the haulage hazard.

August 2—CECILIO PALAFOS, Mexican, machine miner, experience 13 months, age 28 years, married, no children, employed by the Calumet Fuel Co., at the Calumet No. 2 mine, Huerfano county, was killed by a fall off roof. The accident was due to the inexperience of the deceased. A previous cut had exposed a well defined slip in the roof and which had been secured by a prop under it. Deceased was preparing to drill a rib hole at this point and found that the prop interferred with the setting of the drilling machine, where he thought it should be. Sitting down under the slip, he took a pick and knocked out the prop, thus releasing the rock, which fell on him and killed him.

August 2—WILLIAM ELLIS, American, master mechanic. experience 7 years, age 48 years, married, three children, employed by the Fraker Coal Co., at the Bear River mine, Routt county. Deceased had taken some machine repairs into the mine in an empty mine car pulled by a horse. When ready to come out, the mine foreman allowed him to attach the horse to a loaded car so that he could ride to the outside. The grade is about 2 to 2½% and they only used one sprag. As the car came to the surface, the horse ran away and Ellis tried to get off, but was caught and dragged about ten feet and so badly crushed that he died immediately. The accident was due to the negligence of the mine foreman, who violated the Coal Mining Laws when he permitted an inexperienced man to bring a loaded car from the mine.

August 7—THOMAS R. BROWN, American, utility man, experience 40 years, age 54 years, married, no children, employed by the Calumet Fnel Co., at the Calumet No. 2 mine, Huerfano county, was killed by a cave of roof. Deceased and another man were pulling props in a room pillar. They left two rows of props between them and the row pulled, then came back and were preparing to set an anchor post to pull the next row, when the roof gave a sudden break, swinging out the remaining 18 props and letting it cave down on deceased, killing him instantly. The accident was unforeseen and is classed as unavoidable.

August 30—J. N. NAHAY, American, machine miner, experience 16 years, age 38 years, single, employed by the Pikes Peak Fuel Co., at the Pikeview mine, El Paso county, was killed by a fall of face coal. At the time of the accident, deceased was undermining a piece of coal at the face which had not been knocked out

by the shot, but loosened to some extent. He either saw or heard the coal giving way and, in trying to get out of the way, he stumbled and fell over some loose coal lying on the floor close to where he was working. He was caught in the fall and so severely injured that he died a few hours later. The place was well timbered and the accident, from all appearances, was unavoidable.

August 31—W. A. GLEASON, American, teamster, no experience in coal mines, age 65 years, married, no children, was hauling coal from the South Canon mine, operated by the South Canon Mine Leasing Co., Garfield county, was killed by falling off his wagon. He had loaded a wagon of coal from the chute and drove a short distance to the scale to have his load weighed. In some way one of the wheels dropped into the scales, throwing him off the wagon and injuring him so seriously that he died a short time after. The accident was a misadventure for which no one could be held responsible.

September 24—WILLIAM H. HUNTER, American, rope rider, experience 15 years, age 28 years, single, employed by The Victor-American Fuel Co., at the Chandler mine, Fremont county, was killed under a trip of loaded cars. He was riding a trip of cars in an entry over which a span of rock extended halfway, the other half had been shot down. The jagged end of the rock caught the lamp and cap of deceased and tore off his battery from his belt. He tried to get off in the darkened entry on the bell wire side and, as there was no clearance on either side, he fell under the moving cars and was run over. Had a clearance space been provided, as required by law, the accident would have been avoided.

October 7—A. W. THIMMIG, American, driver, experience several years, age 22 years, single, employed by the Pinnacle-Kemmerer Fuel Co., at the Wolf Creek mine, Routt county, was killed by a fall of rock. The accident occurred in an entry which was well timbered on each side of the fall of rock. A cross bar had been loosened by a shot in the opposite entry the night before. While several men were busy replacing the cross bar, a pot rock, surrounded by a water slip, fell from the roof, striking deceased. The accident might have been avoided had a temporary prop been set.

October 15—DOMINICK LARGO, Italian, experience 10 years, age 26 years, single, employed by The National Fuel Co., at the Monarch No. 2 mine, Boulder county, was crushed to death between the wheels of a loaded car. Deceased was driving a loaded car, and, as he turned a curve into a haulage way, he was thrown off the front end of the car and caught between the car wheels and crushed. There was no eye witness to the accident to state how it happened. There is sufficient clearance on either side of roadway. The accident was a misadventure for which no one could be held responsible.

October 23—FELIX MAES, Mexican, rope rider, experience 12 years, age 30 years, married, three children, employed by The Colorado Fuel & Iron Co., at the Kebler No. 2 mine, Huerfano county, came to his death by being pinned between a car and rib. Deceased was on a parting standing on an empty track between four empty cars. A loaded trip derailed at the parting frog, struck the empty cars and catching deseased, pinned him between one of the cars and rib. He sustained such serious injuries that he died shortly after. The accident was a misadventure and no one is held responsible for it.

October 28—JOSEPH COTTON, American, rockman, no experience in coal mines, age 24 years, married, two children, employed by the Pacific Coal M. Co., at the Caddell mine, Huerfano county, was killed by falling off a skip which was used for hauling men out of the slope. Deceased and his partner were inside a skip, which was being drawn up a slope, when, by some mishap, he fell out or was drawn over the top of the skip and rolling under it was killed. His partner had his back to the deceased and did not see how the accident happened; however, it was unforeseen and is classed as unavoidable.

November 14—FRANK A. OWENS, American, stable boss, experience 9 years, age 30 years, married, three children, employed by the Rocky Mountain Fuel Co., at the Alpine mine, Gunnison county, came to his death by falling down the shaft. The opening of the shaft is guarded by a gate equipped with a spring latch. It appears that deceased, on approaching the gate, reached for the latch and lost his balance and fell between the gate and the cage. A witness stated that it was the practice of the men to throw the latch and open the gate, then jump off the cage before it came to a standstill. Probably this was what Owens tried to do and it resulted fatally for him. The management should prohibit the custom of the men to jump off the cage before it comes to a complete standstill

November 24—LOUIS SCHENAR, Bohemian, tracklayer and timberman, experience 31 years, age 51 years, widower, no children, employed by the Rocky Monntain Fnel Co., at the Southwestern mine, Las Animas county, was killed by a fall of rock. The accident occurred on a hanlageway where there had been a fall the night before. Deceased had cleaned up the fall and then notified the roperider, who was working at another point, that the place was ready for him to remove some cars. He then returned to the place and fifteen minutes later the rope-rider found him lying dead under a large rock. Apparently deceased was cleaning up some small debris from under a car wheel, and, while in this act, a rock gave way from the lip of the roof, which extended over the cars, and struck him, killing him instantly. The deceased was known to be a careful workman and the accident was a misadventure, for which no one can be held responsible.

November 25—WILLIAM T. TAYLOR, American, laborer, no experience, age 77 years, married, five adult children, employed by The Victor-American Fuel Co., at the Pinnacle mine yard, Routt county, was killed by being run over by a switch engine. He was cleaning the track at the lower end of the yard when a switch engine ran over him. There was a blinding snow storm and he did not see the switch engine in time to get out of its way.

November 27—O. S. SCHOOLER, American, company man, no experience in coal mines, age 26 years, single, employed by the Barbour Coal Co., at the Barbour mine, Huerfano county, was killed by a fall of rock. Deceased and four other men were cleaning up a fall in an entry. All were men with less than a year's experience in coal mines. The mine foreman examined the roof and found it loose, but left the men to finish the fall without giving orders for propping or timbering the loose roof. Consequently another fall occurred and struck deceased, killing him instantly. The accident was due to lack of supervision by the mine foreman and he is charged with its responsibility.

December 2—C. B. FERGUSON, American, trackman, experience 10 years, age 58 years, widower, seven children, employed by The Victor-American Fuel Co.. at the Chandler mine, Fremont county, was injured November 26, by a trip of cars and died on above date. Deceased was looking for ties in the 5th pannel of the 1st west entry, when he was struck by a runaway car. It appears that the rope rider cut off the car before he had thrown the latches and the car took the wrong track and derailed, pinning deceased under it, where he was found some twenty minutes later with a fractured skull, from the effects of which he died six days later. The responsibility is placed to the negligence of a co-worker and partly to a defective switch.

December 14—RUDOLPH SPORCICH, Austrian, pick miner, experience 17 years, age 39 years, single, employed by The Colorado Fuel & Iron Co., at the Toller mine, Las Animas county, was killed by a fall of rock. Deceased and his partner were mining a skip along a slant under a draw slate about two feet thick. They had mined two feet all along the slant when the drawslate gave way, falling on deceased, killing him instantly. No coal had been mined from under the drawslate, the rock being flush with the face of the coal, consequently no props could be set. The accident was unforeseen and is classed "unavoidable." It is possible, however, had the mine foreman instructed deceased to put up a sprag until the rock could be propped, the accident might have been averted.

December 15—GEORGE MOSKWA, American, motorman, experience 22 years, age 37 years, married, five children, employed by The Temple Fuel Co., at the Brodhead No. 9 mine, Las Animas county, was injured December 14 by being caught between the top of a storage battery motor and roof, and died on the above date. Deceased was motorman of a trolley motor and was riding with

the motorman of a storage battery motor on the morning of the accident to get his trolley motor which was left on an entry the day before. While going under a low place the shoulder of the deceased was pushed against the roof, drawing his body partly on top of the motor, causing such serious injuries that he died the following day. The accident was due to the hazard of the work and no one can be blamed.

December 17—JOE CIPOLLINA, Italian, shot firer and machine runner, experience 11 years, age 35 years, married, no children, employed by the Rocky Mountain Fuel Co., at the Alpine mine, Gunnison county, was killed by a fall of drawslate. Deceased with a helper, had cut for a cross cut. He was taking his jack pipe down, and, while lifting the chain to put on the wheel, a piece of drawslate, four feet wide, six feet long, and six inches thick, fell on his back, badly crushing him, from the effects of which he died a few hours later. Before he started to cut, he tested the roof and warned his helper to keep away from under the rock. He evidently knew that it was unsafe and he should have taken it down or propped it before he began to cut the coal. The accident can be chartered to the negligence of deceased, who was an experienced miner, and realized the danger for he warned his helper.

December 20—CARL E. PELLEY, American, farmer, no experience in coal mining, age 35 years, married, one son, was killed by a rock slide. Deceased had a permit from the State Land Board to mine coal for his own use from a strip pit on state land. It is the practice in this vicinity for the farmers to come to this pit and mine their own coal. The seam is about six feet thick and every man who goes after this coal strips enough off to get his load. In this instance, the ground was frozen and probably the jarring of the shot and the heat of the sun, loosened the dirt and rock, and a slide followed. A rock fell on deceased, but did not touch his fourteen-year-old son, who was helping him. The boy was alone and endeavored to get his father from under the rock by hitching it to the team waiting to be loaded. The rock could not be moved this way and he had to call help from quite a distance before the body of deceased could be released. The accident is charged to gross negligence in issuing a permit to an inexperienced man and to the ignorance of deceased to the danger of this kind of work.

December 20—JOSEPH A. COWAN, JR., American, machine helper, experience 2 years, age 19 years, single, employed by The Victor-American Fuel Co., at the Kenwood mine, Fremont county was killed by a fall of rock. Deceased was helping his brother and they had cut the coal in a room and he was putting skids under the machine to pull it back when a rock gave way from a slip between timbers. The roof had been tested before they started to work by his brother and he detected no loose rock and the slip was not visible. The accident was unforeseen and is classed as "unavoidable."

December 22—ELMER A. RAY, American, pick miner, experience 2 years, married, no children, age 26 years, employed by the Butcher Knife Coal Co., at the Butcher Knife mine, Routt county, was killed by a fall of rock. Deceased was in the act of setting props, but there was an invisible slip between the props he had put up and it gave way, falling on him and killed him instantly. An effort was made to make the place safe and the accident cannot be charged to one's negligence.

December 23—MARTIN KURETICH, Austrian, pick miner, experience 25 years, age 53 years, married, four children, employed by the Juanita Coal & Coke Co., at the King mine, Delta county, was struck by an empty rope trip and killed. The rope rider passed deceased on the main slope, who said he was sick. The rope rider went into the top mine to signal the hoistman to pull up the trip to the top mine, for which he had thrown the switch. As the trip did not come up after several signals had been given, he went out onto the main slope to see what was wrong and found deceased dead between the wheels of the second car. It was against the rules for men to walk on the slope as a manway was provided for them. Also, there was a clearance of three feet on both sides of the track. As there was no eye witness to the accident and he had stated that he was sick, he probably lost his bearing and stumbled and was caught by the trip. The responsibility cannot be placed on anyone as there was nothing to point to any negligence on part of the mine management.



LIST OF SUCCESSFUL CANDIDATES WHO PASSED THE EXAMINATION FOR COAL MINE OFFICIALS, JUNE 3, 4 AND 5, 1926

First Class Mine Foreman

Cert.			
No.	Name	Ac	ddress
46-26	Adair, William	Ludlow,	Colo.
63-26	Arnoldi, Pete	Ideal,	Colo.
10-26	Arnott, Joe M.	Crested Butte,	Colo.
53-26	Ballantyne, Gilbert	Aguilar,	Colo.
77-26	Bertotti, James A		
6-26	Bodnar, Joe	Frederick.	Colo.
14-26	Campbell, Robert J	Cedaredge.	Colo.
61-26	Dale, John	Brodhead.	Colo.
8-26	Davis, John William	Ideal,	Colo.
16-26	Dawe, Clifford	Valdez.	Colo
19-26	Dowds, Hugh		
90-26	Ellis, Elmer		
72-26	Fiorina, Adolph A	Rockvale.	Colo.
27-26	Fuller, Elmer	Kenwood.	Colo
70-26	Gieser, W. C.	Bowen.	Colo
60-26	Godfrey, Richard	Cameo.	Colo
97-26	Hallett, Carl T.		
99-26	Harris, Clarence E.	Erie.	Colo
5-26	Hennau, Emil	Mt. Harris.	Colo.
28-26	Hill, John W.	Delagua.	Colo.
35-26	Hughes, Carl G.		
44-26	Immordino, Joe		
12-26	Johnson, Henry C.	Alt Harris	Colo
102-26	Kos, Pete		
25-26	Langowski, Alexander J.	Sopris	Colo.
4-26	Langowski, Charles		
49-26	Lloyd, John G.	Fare	Colo
69-26	Madone, Dominie	Rockvale	Colo
62-26	Marcketti, J. R.	Carbondale.	Colo.
51-26	Marshall, Wm.	Toltee.	Colo.
80-26	Musgrove, J. F.	Meeker.	Colo.
36-26	Oberding, Wm. J.	Nucla.	Colo.
65-26	O'Donnell, David	Denver.	Colo_
76-26	Periuo, Lawrence	Florence.	Colo.
38-26	Pierce, Thomas G.	Durango.	
89-26	Potter, Parley	Valdez	Colo.
37-26	Rees, John	Florence.	Colo.
48-26	Roberts, William		
59-26	Boddy, J. J.	Cameo.	Colo.
42-26	Savio, Gaetano	Sonris	Colo
85-26	Smith, Matthew	Rockvale	Colo
52-26	Traeger, John	Englewood	Colo.
103-26	Weiler, Jake	Eric	Colo
74-26	Zontine, Joseph	Rockvale	Colo
1 1 20	zontine, Joseph		

First Class Assistant Mine Foreman

47-26	Falgien, John
45-26	Jarrett, Stanley M. Gallup, New Mexico

Fire Boss

2-26	Bannecks, K. N.	Doloarbon	Colo
94-26	Berardi, Steve	Coal Creek	Colo.
57-26	Bowman, Archibald	Morley	Colo.
88-26	Bonelli, Joseph	Roulder	Colo.
11-26	Boultbee, Arthur	Somoreat	Colo.
57-26	Bowman, Archibald	Morlay	Colo.
101-26	Canton, Trevor	Canon City	Colo.
64-26	Christy, James S.	Amilon	Colo.
100-26	Conway, Frank	Contor	Colo.
26-26	Costa, Charles		
1-26	Cregger, Duard		
32-26	Crist, Cunico		
18-26	Dahl, Arthur	Sopris,	Colo.
91-26	Delisa, Frank P.	Pooltrole	Colo.
92-26	Delisa, James	Rockvaie,	Colo.
87-26	Delisa, Rosario		
41-26	Fawcett, Leslie	nockvale	Colo.
3-26	Godfrey, Melvern J.	Agunar,	Colo.
93-26	Graham, Mathew D.	Orested Dutte,	Colo.
	Granam, Matnew D.	Florence,	Colo.
81-26	Haldeman, J. F.		
50-26 82-26	Hale, Athel J	Agunar,	Co10.
84-26	Hay, James W.		
34-26	Hood, Walter A.	Durango,	Co10.
29-26	Howell, Richard	Cokedale,	Co10.
	Kilpatrick, James C.	Agunar,	C010.
86-26	Kitto, Edward	Coal Creek,	Colo.
15-26 20-26	Laberau, Ernest	Cokedale,	Co10.
	Laiminger, Alfred S.	Sopris,	Co10.
21-26	Luerras, Daniel	Serene,	Co10.
31-26	Luerras, David C	Serene,	Co10.
23-26	Liddle, Thomas	Louisville,	Co10.
58-26	Lippis, Ben R.	Canon City,	C010.
22-26	McCargish, Ed.	Alamo,	C010.
83-26	McGeechan, Thos. C.	Lester,	C010.
79-26	McIntyre, John	Aguilar,	Co10.
33-26	Manka, Frank	Walsenburg,	Colo
40-26	Martinez, Fred	Walsenburg,	Colo.
98-26	Minnehan, Leo V.	Lafavette,	Colo.
43-26	Moberly, John Clifford	Kouse,	Colo.
66-26	Montgomery, James	Rouse,	Colo.
71-26	Moschetti, Louis D.		
75-26	Peduzzi, Joseph	Ideal,	Colo.
39-26	Riva, James	Durango,	Colo.
78-26	Santarelli, Joseph F		Cc10.

73-26	Sartoris, John A.	Rockvale	Colo.
96-26	Scavarda, John		
95-26	Schwartz, Joseph L	Coal Creek,	Colo.
24-26	Schwartz, Louis L.	Coal Creek,	Colo.
30-26	Scollick, George	Florence,	Colo.
9-26	Smith, Willie Herd		Colo.
55-26	Smith, William	Trinidad,	Colo.
56-26	Stokes, W. D.	Palisade,	Colo.
67-26		Rouse,	Colo.
68-26	Williams, J. A.		
7-26	Yedrosich, Sam	Rapson,	Colo
54-26	Zimlock, Andy	Glenwood Springs,	Colo.

MACHINERY FOR COAL MINES

Hoists, Pumps, Fans and Power Equipment
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Hendrie & Bolthoff

Denver, Colorado



